# HIGHLIGHTS

**REVISION NO. 33** Jun 01/10

Pages which have been revised are outlined below, together with the Highlights of the Revision

| CH/SE/SU C PAGES | REASON FOR CHANGE | EFFECTIVITY |
|---|---|---|
| **CHAPTER 25** | | |
| L.E.P. 1-10 | Revised to Reflect this revision indicating new,revised, and/or deleted pages | |
| T. OF C. 7, 11-12 | Revised to reflect this revision | |
| 25-11-11 401, 403-405 | Minor additions and amplification **ADDED MATERIAL NO. 08-007.** | |
| 25-11-11 502, 504-505 | Layout Improved or Effectivity Updated | |
| 25-11-12 401, 403-405 | Minor additions and amplification **ADDED MATERIAL NO. 08-007.** | |
| 25-13-12 401, 403 | Reprinted | |
| 25-15-11 401 | Minor additions and amplification **ADDED OPERATIONAL TEST.** | |
| 25-21-00 414- 416 | Minor additions and amplification **ADD TORQUE VALUE TABLE** | |
| 25-25-00 201 | Layout Improved or Effectivity Updated | |
| 25-34-00 01 501- 502 | Layout Improved or Effectivity Updated | |
| 25-50-00 602- 605, 607- 615 | Effectivity updated at the bottom of the page | |
| 25-54-10 | Layout Improved or Effectivity Updated | |



Printed in France

| CH/SE/SU C PAGES | REASON FOR CHANGE | EFFECTIVITY |
|---|---|---|
| 201 | | |
| 25-61-13<br>601, 603 | Minor additions and amplification<br>**ADDED NOTES IN ACCORDANCE WITH MPD TASK 256113-01.** | |
| 25-62-41<br>401 | Topic cancelled | |
| 25-65-32<br>601- 602 | Layout Improved or Effectivity Updated | |
| 25-66-00<br>501, 504-<br>505 | Layout Improved or Effectivity Updated | |



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CHAPTER 25

EQUIP/FURNISHINGS

LIST OF EFFECTIVE PAGES

N, R or D indicates pages which are New, Revised or Deleted respectively
Remove and insert the affected pages and complete the Record of Revisions and the Record of Temporary Revisions as necessary

| CH/SE/SU | C | PAGE | DATE | CH/SE/SU | C | PAGE | DATE | CH/SE/SU | C | PAGE | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RECORD | | | | 25-00-00 | | 812 | Jun01/04 | 25-00-00 | | 854 | Jun01/07 |
| OF TEMP. | | | | 25-00-00 | | 813 | Jun01/04 | 25-00-00 | | 855 | Jun01/07 |
| REVISION | | | | 25-00-00 | | 814 | Jun01/04 | 25-00-00 | | 856 | Jun01/07 |
| | | | | 25-00-00 | | 815 | Jun01/04 | 25-00-00 | | 857 | Jun01/07 |
| L.E.P. | R | 1-10 | Jun01/10 | 25-00-00 | | 816 | Jun01/04 | 25-00-00 | | 858 | Jun01/07 |
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| Component Location | | | 2 | 006-100, |
| Component Location | | | 3 | 101-200, |
| Description and Operation | | | 9 | 001-005, |
| Description and Operation | | | 10 | 006-100, |
| Description and Operation | | | 11 | 101-200, |
| BULK CARGO COMPARTMENT - LININGS | 25-56-11 | | | |
| Maintenance/Practices | | | 201 | ALL |
| Ceiling Panels | | | 201 | ALL |
| Sidewall Panels LH and RH | | | 201 | ALL |
| TIE-DOWN FITTINGS | 25-56-12 | | | |
| Removal/Installation | | | 401 | ALL |
| EMERGENCY EQUIPMENT | 25-60-00 | | | |
| Description and Operation | | | 1 | ALL |
| General | | | 1 | ALL |
| Inspection/Check | | | 601 | ALL |
| ESCAPE FACILITIES | 25-61-00 | | | |
| FLIGHT COMPARTMENT EMERGENCY DESCENT DEVICE | 25-61-13 | | | |
| Removal/Installation | | | 401 | ALL |
| Inspection/Check | | | 601 | ALL |
| PASSENGER COMPARTMENT ESCAPE FACILITIES | 25-61-20 | | | |
| Description and Operation | | | 1 | ALL |
| Passenger/Crew Door Interface | | | 1 | ALL |
| Slide/Raft | | | 7 | ALL |
| Emergency Exit Door Interface | | | 27 | ALL |
| Overwing Escape Slide | | | 31 | ALL |
| Maintenance Practices | | | 201 | ALL |
| Exchange of slide/rafts and escape slides at Passenger/Crew doors | | | 201 | ALL |
| Power Unit Replacement | | | 203 | ALL |
| Adjustment/Test | | | 501 | ALL |
| Operational Test of Escape Slide and/or Slide/Raft Inflation | | | 501 | ALL |
| Functional Test of Escape Slide | | | 507 | ALL |

| SUBJECT | CH/SE/SU | C | PAGE | EFFECTIVITY |
|---|---|---|---|---|
| and/or Slide/Raft Lighting System | | | | |
| Inspection/Check | | | 601 | ALL |
| Dual Escape Slides and Slide/Raft | | | 601 | ALL |
| Pressure Check | | | 601 | ALL |
| Visual Inspection | | | 603 | ALL |
| Slide Release Mechanism Check | | | 603 | ALL |
| Overwing Escape Slides | | | 604 | ALL |
| Pressure Check | | | 605 | ALL |
| Visual Inspection | | | 605 | ALL |
| Slide Release Mechanism Check | | | 605 | ALL |
| SLIDE/RAFT | 25-61-22 | | | |
| Removal/Installation | | | 401 | ALL |
| Inflated Slide/Raft - Removal | | | 401 | ALL |
| Packed Slide/Raft | | | 404 | ALL |
| Removal/Installation | | | | |
| OVERWING ESCAPE SLIDE | 25-61-23 | | | |
| Removal/Installation | | | 401 | ALL |
| Inflated Slide Removal | | | 401 | ALL |
| Packed Slide Removal/Installation | | | 404 | ALL |
| FLOATATION AND SURVIVAL EQUIPMENT | 25-62-00 | | | |
| Description and Operation | | | 1 | ALL |
| EVACUATION SIGNALLING EQUIPMENT | 25-63-00 | | | |
| Description and Operation | | | 1 | ALL |
| General | | | 1 | ALL |
| Component Location | | | 1 | ALL |
| Description | | | 3 | ALL |
| Operation | | | 3 | ALL |
| Adjustment/Test | | | 501 | ALL |
| Operational Test | | | 501 | ALL |
| MISCELLANEOUS EMERGENCY EQUIPMENT | 25-65-00 | | | |
| Description and Operation | | | 1 | 101-200, |
| General | | | 1 | 101-200, |
| Maintenance Practices | | | 201 | ALL |
| Adjustment/Test | | | 501 | 101-200, |
| ANTENNA - EMERGENCY LOCATOR | 25-65-14 | | | |
| Removal/Installation | | | 401 | 101-200, |
| CONTROL PANEL - REMOTE, EMERGENCY LOCATOR | 25-65-18 | | | |
| Removal/Installation | | | 401 | 101-200, |
| TRANSMITTER - EMERGENCY, LOCATOR PORTABLE | 25-65-31 | | | |
| Inspection/Check | | | 601 | ALL |
| Removal of the Portable ELT for Workshop Test (Battery Check and Functional Check) | | | 601 | ALL |
| MEGAPHONE | 25-65-32 | | | |
| Inspection/Check | | | 601 | ALL |
| TRANSMITTER - EMERGENCY | 25-65-35 | | | |




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| SUBJECT | CH/SE/SU | C | PAGE | EFFECTIVITY |
|---|---|---|---|---|
| LOCATOR | | | | |
| Removal/Installation | | | 401 | 101-200, |
| RAPID DECOMPRESSION SYSTEM | 25-66-00 | | | |
| Description and Operation | | | 1 | ALL |
| General | | | 1 | ALL |
| Component Location | | | 1 | ALL |
| Adjustment/Test | | | 501 | ALL |
| Inspection/Check | | | 601 | ALL |
| PASSENGER COMPARTMENT DECOMPRESSION PANELS | 25-66-10 | | | |
| Maintenance Practices | | | 201 | ALL |
| FWD CARGO COMPARTMENT DECOMPRESSION PANELS | 25-66-20 | | | |
| Maintenance Practices | | | 201 | ALL |
| AFT AND BULK CARGO COMPARTMENT DECOMPRESSION PANELS | 25-66-30 | | | |
| Maintenance Practices | | | 201 | ALL |
| COCKPIT DOOR DECOMPRESSION - FLAP | 25-66-45 | | | |
| Removal/Installation | | | 401 | ALL |
| ACCESSORY COMPARTMENTS | 25-70-00 | | | |
| Description and Operation | | | 1 | ALL |
| General | | | 1 | ALL |
| AVIONICS COMPARTMENT | 25-71-00 | | | |
| Description and Operation | | | 1 | ALL |
| HEAT AND SOUND INSULATION | 25-71-12 | | | |
| Removal/Installation | | | 401 | ALL |
| Inspection/Check | | | 601 | ALL |
| ATTACHMENT ASSEMBLY | 25-71-13 | | | |
| Removal/Installation | | | 401 | ALL |
| WHEEL WELL HEAT AND SOUND INSULATION | 25-72-00 | | | |
| Description and Operation | | | 1 | ALL |
| Approved Repairs | | | 801 | ALL |
| ACCESS PANELS | 25-72-41 | | | |
| Removal/Installation | | | 401 | ALL |




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1. General

(Ref. Fig. 001)

A. Removable equipment and furnishings, installed in the aircraft include those which are provided for the comfort of passengers and crew, the handling and securing of cargo, the safety of the passengers and crew in an emergency, and the mounting of accessories.

B. The various items of equipment and furnishings are located in the following aircraft compartments:

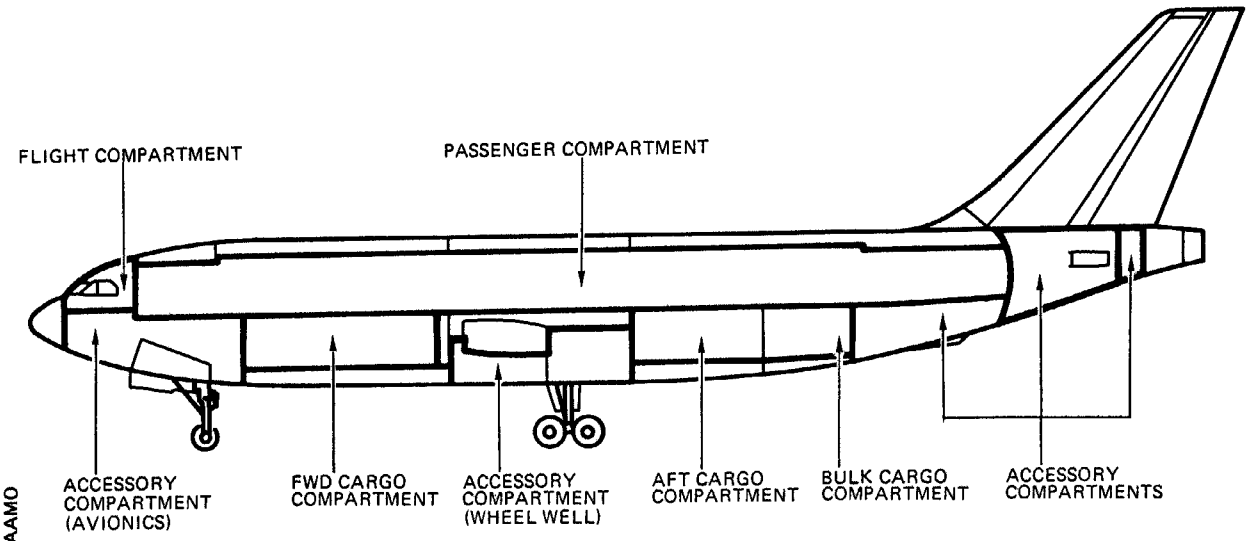
(1) **FLIGHT COMPARTMENT (Ref. 25-10-00)**
- includes crew seats, heat and sound insulation, linings and furnishings and equipment racks.

(2) **PASSENGER COMPARTMENT (Ref. 25-20-00)**
- includes passenger and cabin attendant seats, heat and sound insulation, linings and furnishings, overhead stowage, passenger service units, curtains and partitions, ancillary equipment, floor covering and vacuum cleaner sockets, as well as
- **BUFFET AND GALLEYS (Ref. 25-30-00)**
- **LAVATORIES (Ref. 25-40-00)**

(3) **CARGO COMPARTMENTS (Ref. 25-50-00)**
- includes systems for handling and securing cargo, linings and ceilings, and heat insulation.

(4) **EMERGENCY (Ref. 25-60-00)**
- includes escape facilities and survival equipment installed in the various compartments.

(5) **ACCESSORY COMPARTMENTS (Ref. 25-70-00)**
- includes equipment racks and heat insulation.

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Equipped and Furnished Compartments
Figure 001

WARNING : USE INSECTICIDE (MAT. NO. 14-004 AND 14-004A) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
WARNING : ALL NONPARTICIPATING PERSONNEL MUST VACATE THE AIRCRAFT PRIOR TO PEST CONTROL APPLICATION.
WARNING : DO NOT SPRAY FOOD STUFFS.
CAUTION : IN FLIGHT COMPARTMENT, SPRAY FLOORING ONLY.
CAUTION : ON CARPETING, USE ONLY IN SPRAY FORM. TOO MUCH LIQUID WILL STAIN CARPETS AND REDUCE FLAME-RESISTANT QUALITIES.
NOTE : The area volumes as stated below are rounded and have been calculated assuming that all compartment furnishings are installed.

Flight Compartment : 12 cu.m ( 424 cu.ft. ).
Passenger Compartment : 227 cu.m ( 8,015 cu.ft. ).
R FWD Cargo Compartment : 55 cu.m ( 1,942 cu.ft. ).
R AFT Cargo Compartment : 36.2 cu.m. ( 1,278 cu.ft. ).
R BULK Cargo Compartment : 21 cu.m. ( 741.5 cu.ft. ).

1. Reason for the Job

A. Application of pest control techniques

B. Disinfection of galleys, lavatories and cargo compartments

C. Application of pest control techniques (alternative to part A with spray equipment only)

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.6 m (8.5 ft.) |
| B. | Access Platform, 2.7 m (9 ft.) |
| C. | Access Platform, 3.6 m (11.8 ft.) |
| D. | Warning Notices (CAUTION - PEST CONTROL) |
| E. | Respirator, Commercial Type |
| F. | Spray Gun |
| G. | Clean, Lint-Free, Polishing Cloth |
| H. Material No. 14-004 | Insecticide (Ref. 20-31-00) |
| J. Material No. 14-004A | Insecticide (Ref. 20-31-00) |
| K. Material No. 14-006 | Disinfectants (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 12-33-21, P. Block 1 | Ground Air Pre-Conditioning |
| - 25-34-00, P. Block 1 | Galley Equipment |
| - 52-10-00, P. Block 301 | Passenger/Crew Doors - Special Precautions |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors - Special Precautions |

3. Procedure

A. Job Set-Up
(1)Position access platform and open an appropriate passenger/crew door.
(2)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | GALLEY/CNTOR | 52MC | V78 |
| 133VU | GALLEY/CNTOR | 1XM | V79 |
| 800VU | SHAVER SOCKET | 1MT | G6 |
| 811VU | SHAVER SOCKET | 4MT | B7 |

(3)Empty galley compartments and remove the loose galley equipment (Ref. 25-34-00, P. Block 1).
(4)Position access platform and open FWD and AFT cargo compartment doors.
(5)Prepare insecticide (Mat. No. 14-004) for use according to manufacturer's instructions. If manufacturer's instructions are not available, mix 1 part insecticide to 20 parts water.
NOTE : Water temperature must not be less than 15 °C (59 °F).
(6)Prepare disinfectants (Mat. No. 14-006) for use according to manufacturer's instructions. If manufacturer's instructions are not available, mix 1 g (0.035 oz.) concentrate with 1 l (1.1 US qt.) water.

B. Pest Control Application

WARNING : INSECTICIDE (MAT. NO. 14-004 AND 14-004A) ARE DANGEROUS.
WARNING : ALL NONPARTICIPATING PERSONNEL MUST VACATE THE AIRCRAFT PRIOR TO PEST CONTROL APPLICATION.
(1)Position warning notices.
(2)Remove seat cushions and backrests of all seats in cabin and cockpit.
(3)Open stowages, lavatory doors and cockpit door.
(4)Close passenger/crew door from inside.
(5)Don respirator, rubber gloves, goggles and protective clothes.
WARNING : DO NOT SPRAY FOOD STUFFS.
CAUTION : IN FLIGHT COMPARTMENT, SPRAY FLOORING ONLY.
CAUTION : ON CARPETING, USE ONLY IN SPRAY FORM. TOO MUCH LIQUID WILL STAIN CARPETS AND REDUCE FLAME-RESISTANT QUALITIES.
(6)Spray affected compartments with insecticide (Mat. No. 14-004).
NOTE : In place where coagulation of emulsion must be avoided for technical or optical reasons, work with insecticide (Mat. No. 14-004A).
(7)Delicate parts, such as polished surfaces and covers, must be immediately wiped dry after having been exposed to spray.
(8)Leave aircraft and close the passenger/crew door from outside (Ref. 52-10-00, P. Block 301).
(9)Open FWD and AFT cargo compartment doors (Ref. 52-30-00, P. Block 301).
(10)Spray insecticide (Mat. No. 14-004A) to the FWD and AFT cargo compartment area.
(11)Close FWD and AFT cargo compartment doors from outside.
(12)Keep all doors closed for 45 minutes.
(13)Connect the ground air supply (Ref. 12-33-21, P. Block 1).
(14)Supply the aircraft with ground air for 1 hour to ventilate the insecticide out of the aircraft.
(15)Open all passenger/crew doors and FWD and AFT cargo compartment doors and let them stay open for 1 hour before you enter the aircraft.

C. Disinfection

WARNING : IT IS NECESSARY TO WEAR RUBBER GLOVES, RESPIRATOR, GOGGLES AND PROTECTIVE CLOTHES FOR THIS DISINFECTING PROCESS.
(1)Disinfect galleys and galley equipment with disinfectant (Mat. No. 14-006) and lint-free cloth.
(2)Clean galleys and galley equipment with clean water.
(3)Disinfect all toilet seats and lavatory equipment with disinfectant (Mat. No. 14-006) and lint-free cloth.
(4)Clean all toilet seats and lavatory equipment with clean water.
(5)Disinfect cabin seats and cabin equipment with a spray gun and disinfectant (Mat. No. 14-006).
(6)Disinfect the FWD and AFT cargo compartment with a spray gun and disinfectant (Mat. No. 14-006).

R D. Close-Up

R (1)Remove safety clips and tags, and close circuit breakers 52MC, 1XM, 1MT
R and 4MT.
R (2)Remove warning notices.
R (3)Install loose galley equipment (Ref. 25-34-00, P. Block 1).

R (4)Install cushions and backrests of the seats.
R (5)Make certain that working area is clean and clear of tools and
R miscellaneous items of equipment.
R (6)Close passenger/crew door and remove access platform.
R (7)Close FWD and AFT cargo compartment doors (Ref. 52-30-00, P. Block 301)
R and remove access platforms.
R (8)Remove ground support equipment.

R E. Pest Control Application (with Spray Equipment only)
R WARNING : SOXAL-PESTIGAS DISINFECTANT IS DANGEROUS.
R WARNING : ALL NONPARTICIPATING PERSONNEL MUST VACATE THE AIRCRAFT PRIOR TO
R PEST CONTROL APPLICATION.
R WARNING : DO NOT SPRAY FOOD STUFFS.
R CAUTION : IN FLIGHT COMPARTMENT, SPRAY FLOORING ONLY.
R CAUTION : ON CARPETING, USE DISINFECTANT SPARINGLY, TOO MUCH LIQUID WILL
R STAIN CARPETS AND REDUCE FLAME-RESISTANT QUALITIES.
R (1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.6 m (8.5 ft.) |
| B. | Access Platform, 2.7 m (9 ft.) |
| C. | Access Platform, 3.6 m (11.8 ft.) |
| D. | Warning Notices (CAUTION - PEST CONTROL) |
| E. | Respirator, Commercial Type |
| F. | Spray Gun |
| G. | Masking Paper |
| H. | Clean, Lint-Free, Polishing Cloth |
| J. | Soxal-Pestigas |

R Referenced Procedures

| | |
|---|---|
| - 12-33-21, P. Block 1 | Ground Air Pre-Conditioning |
| - 25-34-00, P. Block 1 | Galley Equipment |
| - 52-10-00, P. Block 301 | Passenger/Crew Doors - Special Precautions |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors - Special Precautions |

R (2)Procedure
R (a)Position warning notices.
R (b)Remove seat cushions and backrests of all seats in cabin and cockpit.
R (c)Open stowages, lavatory doors and cockpit door.
R (d)Close passenger/crew door from inside.
R (e)Cover all window panes and perspex surfaces in cabin and cockpit with masking paper.
R (f)Don respirator, rubber gloves, goggles and protective clothes.
R (g)Spray affected compartments with Soxal-pestigas disinfectant.
R (h)Delicate parts, such as polished surfaces and covers, must be immediately wiped dry after having been exposed to spray.
R (j)Leave aircraft and close the passenger/crew door from outside (Ref. 52-10-00, P. Block 301).
R (k)Open FWD and AFT cargo compartment doors (Ref. 52-30-00, P. Block 301).
R (l)Spray Soxal-Pestigas disinfectant in the FWD and AFT cargo compartment area.
R (m)Close FWD and AFT cargo compartment doors from outside.
R (n)Keep all doors closed for 2 hours.
R (p)Connect the ground air supply (Ref. 12-33-21, P. Block 1).
R (q)Supply the aircraft with ground air for 1 hour to ventilate the insecticide out of the aircraft.
R (r)Open all passenger/crew doors and FWD and AFT cargo compartment doors and let them stay open for 1 hour before you enter the aircraft.

F. Close-Up
(1)Remove safety clips and tags, and close circuit breakers 52MC, 1XM, 1MT and 4MT.
(2)Remove masking paper from windows and perspex surfaces in cabin and cockpit.
(3)Remove warning notices.
(4)Install loose galley equipment (Ref. 25-34-00, P. Block 1).
(5)Install cushions and backrests of the seats.
(6)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(7)Close passenger/crew door and remove access platform.
(8)Close FWD and AFT cargo compartment doors (Ref. 52-30-00, P. Block 301) and remove access platforms.
(9)Remove ground support equipment.

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
R WARNING : APPLY MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS,
R UNLESS OTHERWISE STATED.
R WARNING : SOME MATERIALS CONTAIN IRRITANTS, WEAR PROTECTIVE CLOTHING, FACE MASK
R AND PROTECT EYES. IF SKIN OR EYES BECOME AFFECTED, WASH AFFECTED
R AREA IMMEDIATELY WITH CLEAN WATER AND OBTAIN MEDICAL AID.
CAUTION : SOLVENTS AND DETERGENTS, OTHER THAN THOSE SPECIFIED, MAY DAMAGE SURFACES BEYOND REPAIR. USE SPECIFIED CLEANING MATERIALS ONLY.
CAUTION : RUBBING ACRYLIC GLASS SURFACES WITH A DRY CLOTH CAUSES SCRATCHES AND BUILDS UP AN ELECTROSTATIC CHARGE WHICH ATTRACTS DUST PARTICLES.
R

1. Equipment and Materials

| | ITEM | DESIGNATION |
|---|---|---|
| | A. | Access Platform 3.6 m (11.8 ft.) |
| | B. | Fabric Shampoo |
| | C. | Vacuum Cleaner |
| | D. | Containers |
| | E. | Dust Covers |
| | F. | Nonmetallic Scraper |
| | G. | Boiled Glove Cloth |
| | H. | Sponge |
| | J. | Chamois Leather |
| | K. | Paper Towels |
| | L. | Soap |
| | M. | Clean, Lint-Free Cloth |
| | N. | Brushes - Soft, Medium and Stiff Fiber Bristle |
| R | P. | Masking Paper |
| R | Q. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| R | R. Material No. 05-010 | Special Materials (Ref. 20-31-00) |
| R | S. Material No. 11-002 | Cleaning Agents (Ref. 20-31-00) |
| R | T. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| R | U. Material No. 11-016 | Cleaning Agents (Ref. 20-31-00) |
| R | V. Material No. 11-017 | Cleaning Agents (Ref. 20-31-00) |
| R | W. Material No. 11-018 | Cleaning Agents (Ref. 20-31-00) |
| R | Y. Material No. 11-019 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | | |
|---|---|---|
| | - 24-41-00, P. Block 301 | AC External Power Control |
| | - 25-00-00, P. Block 801 | Equipment/Furnishings |
| | - 25-52-22, P. Block 701 | Ball Mats |
| R | - 31-57-22, P. Block 701 | Ecam Display Unit (1WT, 3WT) |
| | - 51-75-10, P. Block 801 | Repair of Paint Coatings |

2. Procedure

A. Job Set-Up
(1)Position access platform and open an appropriate passenger/crew door.
(2)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that the following circuit breakers are closed:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | VACUUM CLEANER SOCKET/Z0231 | 1ME | E1 |
| 800VU | VACUUM CLEANER SOCKET/Z0232 | 2ME | E2 |
| 800VU | VACUUM CLEANER SOCKET/Z0241 | 3ME | E3 |
| 800VU | VACUUM CLEANER SOCKET/Z0242 | 4ME | E4 |
| 811VU | VACUUM CLEANER SOCKET/Z0261 | 5ME | C17 |
| 811VU | VACUUM CLEANER SOCKET/Z0262 | 6ME | C18 |

B. Cleaning
NOTE : Cleaning agents are to be diluted in accordance with the manufacturers' instructions.
Cleaning procedures have been classified according to the type of surface to be cleaned.
For cleaning/painting of cargo compartment ball mats (Ref. 25-52-22, P. Block 701).
R NOTE : If necessary take masking paper on the electrical outlets so that
R they do not get wet.
(1)Color impregnated plastic, painted and foil decorated surfaces.
(a)Stain removal
1 Remove loose dirt in area of stain by wiping lightly with damp cloth.
NOTE : Do not rub textured or perforated surfaces as this will only force dirt into surface.
R 2 Apply diluted detergent (Mat. No. 11-017) to stained area with damp sponge.
NOTE : When cleaning textured surfaces, remove stain from recessed areas by lightly scrubbing with soft fiber brush.
3 Rinse area with sponge and clean water.
NOTE : If stain is still evident, repeat above steps (2 and 3 ) until stain is removed.
4 Wipe surface dry with clean cloth.
(b)General cleaning
R 1 Apply diluted detergent (Mat. No. 11-017) to surface with damp sponge and allow to remain on surface for 1 to 2 minutes.
2 Rinse surface with sponge and clean water.
3 Wipe surface dry with clean cloth.
(2)Acrylic glass and other transparent plastic surfaces.
CAUTION : DO NOT RUB SURFACES WITH DRY CLOTH. USE SPECIFIED CLEANING MATERIALS ONLY. CARE SHOULD BE TAKEN NOT TO SCRATCH SURFACE.
(a)Clean pane by hand, using liberal quantities of warm water. Make certain that no abrasive matter remains on pane.
(b)Wash pane with mild soap solution applied with boiled glove cloth, sponge or chamois leather.

(c)Rinse pane with liberal quantities of warm water and dry with clean, damp chamois leather.
(d)If further cleaning is required, proceed as follows:
R 1 Apply plastic cleaner (Mat. No. 05-010) and clean pane using boiled glove cloth.
2 Rinse pane with clean water and dry with clean, damp chamois leather.
R (3)Monitors and the display screens (Ref. 31-57-22, P. Block 701).
R (4)Mirrors
(a)Clean pane by hand, using liberal quantities of warm water. Make certain that no abrasive matter remains on pane.
(b)Wash pane with mild soap solution applied with boiled glove cloth, sponge or chamois leather.
(c)Rinse pane with liberal quantities of warm water and dry with clean damp chamois leather.
R (d)If further cleaning is required, proceed as follows:
R 1 Apply window cleaner (Mat. No. 11-019) and clean pane using boiled
R glove cloth.
R 2 Rinse pane with clean water and dry with clean, damp chamois leather.
R (5)Carpeting
(a)Remove stains.
NOTE : Stains should be removed as soon as possible. Many stains that can be removed when fresh become difficult or impossible to re-remove after ageing.
1 Soak stain area with cold or lukewarm water.
2 Soften stain area by gently working carpet pile with blunt, nonmetallic scraper and blot area with paper towels.
R 3 Apply diluted detergent (Mat. No. 11-018) to stain area.
CAUTION : VIGOROUS SCRUBBING WITH BRUSH CAN DAMAGE CARPET.
4 Gently work detergent into stained pile, using medium fiber brush.
5 Blot area with paper towels.
NOTE : If stain is still evident, repeat steps (3) thru (5).
6 Vacuum clean stain area.
7 Brush area with soft fiber brush to straighten and lift pile.
(b)Clean carpet.
1 Apply fabric shampoo and gently work shampoo into carpet using medium fiber brush.
2 Brush carpeting with soft fiber brush to straighten and lift pile.
3 Allow cleaned area to dry thoroughly and then vacuum clean.
R (6)Seat covers and curtains.
(a)Remove stains.
CAUTION : FABRICS ARE FIRE-RETARDANT TREATED. USE SPECIFIED CLEANING MATERIALS ONLY.
NOTE : Cleaning in accordance with following instructions, will not affect fire-retardant quality of fabrics.
In event following instructions conflict with instructions supplied by fabric manufacturer, clean in accordance with the latter's instructions.
R 1 Soften stain area with detergent (Mat. No. 11-018) and steam.
2 Blot stained area with paper towel. Dry clean.
R (b)Dry clean with solution of detergent (Mat. No. 11-002, 11-018) and cold water.

NOTE : Proportion cleaning agents in accordance with maufacturers' instructions and maximum cold water content of 8 percent. Cleaning drum temperature should not exceed 72 °F (22 °C).

R (7)Synthetic leather

(a)Remove oil-based stains.

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

1 Remove loose dirt in stain area by wiping lightly with cloth, dampened with cleaning agent (Mat. No. 11-003).

NOTE : Do not rub textured or perforated surfaces. Rubbing forces dirt into surface.

R 2 Apply diluted detergent (Mat. No. 11-017) to stained area using damp sponge.

NOTE : When cleaning textured surfaces, remove stain from recessed areas by lightly scrubbing with soft fiber brush.

3 Rinse area with sponge and clean water.

NOTE : If stain is still evident, repeat above steps until stain is removed.

4 Wipe surface dry with clean cloth.

(b)Remove water-based stains, following above steps 2 thru 4 .

(c)Cleaning

R 1 Apply diluted detergent (Mat. No. 11-017) to surface with damp sponge.

2 Remove detergent from surface with damp cloth.

NOTE : Make certain that all traces of detergent are removed from surface.

3 Rub surface briskly with soft, dry cloth.

R (8)Nontextile floor covering

(a)Remove surface dirt with vacuum cleaner.

R (b)Apply diluted detergent (Mat. No. 11-017) and scrub surface with stiff fiber brush.

NOTE : Linear cleaning, in direction of pattern, improves cleaning effectiveness.

(c)Rinse surface with clean water and sponge.

(d)Wipe surface dry with clean cloth.

R (9)Aluminum

CAUTION : DO NOT USE POLISHES OR ABRASIVES ON DECORATIVE ALUMINUM SURFACES.

R (a)Apply diluted detergent (Mat. No. 11-016) using wet sponge.

(b)Rinse surface with clean water and sponge.

(c)Wipe surface dry with clean cloth.

R (10)Stainless steel

R (a)Apply diluted detergent (Mat. No. 11-016) using wet sponge.

(b)Rinse using clean water and sponge.

(c)Wipe dry with clean cloth.

R (d)Apply detergent (Mat. No. 11-016) with soft, clean cloth.

NOTE : Apply detergent to small areas at a time.

(e)Wipe surface clean with dry cloth until surface has uniform appearance.

C. Painting

(1)Repair damaged paintwork (Ref. 51-75-10, P. Block 801 and 25-00-00, P. Block 801).

D. Close-Up
(1) De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(2) Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.
(3) Close passenger/crew door and remove access platform.

WARNING : CLEANING AGENT (MAT. NO: 11-003) IS DANGEROUS.
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
CAUTION : USE ONLY SPECIFIED CLEANING MATERIALS AND SOLUTIONS, OR THEIR EQUIVALENT. THERE IS THE DANGER THAT THE SURFACE PROTECTION COULD BE DAMAGED IF UNSPECIFIED MATERIALS ARE USED.

1. General

A. Abbreviations

(1)GRP - Glassfiber Reinforced Plastic
(2)PC - Polycarbonate
(3)PVC - Polyvinyl Chloride
(4)NTF - Nontextile Floor Covering

B. These repair instructions consist of the following individual processes:
(1)Repair of painted components.
(a)GRP components in accordance with the requirements of FAR 25. 853 (a-1).
(b)Thermoplastic components and aluminium parts in accordance with the requirements of FAR 25. 853 (a-1).

R **ON A/C 101-200,

(2)Repair of decor foil of composite components and aluminum parts.
(a)Removal of old foil
(b)Repair of damaged foil by insertion
(c)Coating with decor foil (cold method)
(d)Coating with decor foil (hot method)

R **ON A/C ALL

(2)Repair of decor foil of composite components and aluminum parts.
(a)Removal of old foil in accordance with the requirements of FAR 25. 853 (a-1).
(b)Repair of damage foil by insertion in accordance with the requirements of FAR 25. 853 (a-1).
(c)Coating with decor foil (cold method) in accordance with the requirements of FAR 25. 853 (a-1).
(d)Coating with decor foil (hot method) in accordance with the requirements of FAR 25. 853 (a-1).

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(3)Repair of polycarbonate sheet components.
(a)Components consisting of a single sheet of PC.
(b)Polycarbonate composite components.

**ON A/C ALL

(3)Repair of polycarbonate sheet components.
(a)Components consisting of a single sheet of PC in accordance with the requirements of FAR 25. 853 (a-1).
(b)Polycarbonate composite components in accordance with the requirements of FAR 25. 853 (a-1).
(4)Repair of composite components.
(a)Structural repair in accordance with the requirements of FAR 25. 853 (a-1).
(b)Nonstructural repair in accordance with the requirements of FAR 25. 853 (a-1).
(c)Repair of surface damage of composite components: depressions of up to 1 mm (0.04 in.) in accordance with the requirements of FAR 25. 853 (a-1).
(d)Repair of surface damage of composite components: depressions exceeding 1 mm (0.04 in.) in accordance with the requirements of FAR 25. 853 (a-1).
(5)Repair of Mylar sheets.
(6)Repair of Airfloor floor covering
(7)Repair of cargo compartment linings.
R (8)Protection of cargo compartment linings with S-Glass Patch.
R (9)Repair of heat and sound insulation in accordance with
R FAR 25.856(a).

R **ON A/C 101-200,

2. Repair of Painted Components
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

A. GRP Components
(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Adhesive Tape |
| (b) | Vibratory Sander |
| (c) | Emery Cloth, Grade 320-400 |
| (d) | Clean, Lint-Free Cloth |
| (e) | Spray Gun |
| (f) | Nozzle, 1.5 mm (0.06 in.) dia. |
| (g) | DIN Cup, 4 mm |
| (h) | Dry, Clean, Compressed Air, 3-5 bar (44-73 psi) |
| (j)Material No. 07-012 | Lacquers (Ref. 20-31-00) |
| (k)Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure
(a)Job Set-Up
1 Remove component from aircraft, if necessary.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
2 Clean component with cleaning agent (Mat. No. 11-003).
3 Mask adjoining components and undamaged area, of component being repaired, with adhesive tape and paper.
4 Abrade coat in area of repair with emery cloth, grade 320-400.
5 Clean abraded area with cleaning agent (Mat. No. 11-003).

(b)Repair
1 Prepare mix for smooth finish of 2 parts by weight of lacquer 5018 (Mat. No. 07-012) and 1 part by weight of hardener 402 (Mat. No. 07-012). Add 5-10% thinner 62 (Mat. No. 07-012) to attain desired viscosity of 17-23 sec., 4 mm DIN cup. Allow 20 min. reaction time before use.
NOTE : Pot life max. 12 hr. Pot life until rethinning to initial viscosity is required: 8-10 hr.
NOTE : Conditions for use
- Temperature 15-30° C (50-86° F)
- Relative humidity 35-80%

2 Apply smooth finish in 1-2 cross coats.
NOTE : Required coat thickness of smooth finish 0.02-0.03 mm (0.0079-0.0012 in.)
NOTE : Smooth finish is dust dry after 4 hr.; transport dry after 12 hr.; may be overpainted between 30 min. and 12 hr.; completely dry after 7 days at room temperature.
NOTE : If the drying time between the coats exceeds 12 hr., clean with thinner 62 (Mat. No. 07-012) or abrade and clean.
NOTE : Heat curing at 60° C (140° F): Dust dry after appr. 30 min. Transport dry after 60-90 min. Overpainting: without cleaning or abrading if heat-cured for max. 30 min. only.

3 Prepare mix for textured finish of 2 parts by weight of lacquer 5018 (Mat. No. 07-012) and 1 part by weight of hardener 402 (Mat. No. 07-012).
NOTE : Required viscosity 24-30 sec., 4 mm DIN cup. Allow 20 min. reaction time before use.
NOTE : Pot life max. 12 hr. Pot life until rethinning to initial viscosity is required: appr. 4 hr.
NOTE : Conditions for use
- Temperature 15-30° C (59-86° F)
- Relative humidity 35-80%

4 Apply textured finish in 3-4 cross coats.
NOTE : Required coat thickness of textured finish 0.04-0.06 mm (0.0016-0.0024 in.).
NOTE : Textured finish is dust dry after 4 hr.; transport dry after 12 hr.; may be overpainted between 30 min. and 12 hr.; completely dry after 7 days at room temperature.
NOTE : If the drying time between the coats exceeds 12 hr., clean with thinner 62 (Mat. No. 07-012) or abrade and clean.
NOTE : Heat curing at 60° C (140° F) Dust dry after appr. 30 min. Transport dry after 60-90 min. Overpainting: without cleaning or abrading if heat-cured for max. 30 min. only.

(c)Close-Up
1 Remove adhesive tape and paper from adjoining components and from repaired component.
2 Install component in aircraft, if removed for repair.
3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

B. PC Components
(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Adhesive Tape |
| (b) | Vibratory Sander |
| (c) | Emery Cloth, Grade 320-400 |
| (d) | Clean, Lint-Free Cloth |
| (e) | Spray Gun |
| (f) | Nozzle, 1.5 mm (0.06 in.) dia. |
| (g) | DIN Cup, 4 mm |
| (h) | Dry, Clean, Compressed Air, 3-5 bar (44-73 psi) |
| (j)Material No. 07-012 | Lacquers (Ref. 20-31-00) |

(2)Procedure
(a)Job Set-Up
1 Remove component from aircraft, if necessary.
2 Clean component with thinner 62 (Mat. No. 07-012).
3 Mask adjoining components and undamaged area, of component being repaired, with adhesive tape and paper.
4 Abrade coat in area of repair with emery cloth, grade 320-400.
5 Clean abraded area with thinner 62 (Mat. No. 07-012).

(b)Repair
1 Prepare mix for smooth finish of 2 parts by weight of lacquer 5018 (Mat. No. 07-012) and 1 part by weight of hardener 402 (Mat. No. 07-012). Add 5-10% thinner 62 (Mat. No. 07-012) to attain desired viscosity of 17-23 sec., 4 mm DIN cup. Allow 20 min. reaction time before use.
NOTE : Pot life max. 12 hr. Pot life until rethinning to initial viscosity is required: 8-10 hr.
NOTE : Conditions for use
- Temperature 15-30° C (59-86° F)
- Relative humidity 35-80%
2 Apply smooth finish in 1-2 cross coats.
NOTE : Required coat thickness of smooth finish 0.02-0.03 mm (0.00079-0.0012 in.)
NOTE : Smooth finish is dust dry after 4 hr.; transport dry after 12 hr.; may be overpainted between 30 min. and 12 hr.; completely dry after 7 days at room temperature.
NOTE : If the drying time between the coats exceeds 12 hr., clean with thinner 62 (Mat. No. 07-012) or abrade and clean.
NOTE : Heat curing at 60° C (140° F): Dust dry after appr. 30 min. Transport dry after 60-90 min. Overpainting: without cleaning or abrading if heat-cured for max. 30 min. only.

3 Prepare mix for textured finish of 2 parts by weight of lacquer 5018 (Mat. No. 07-012) and 1 part by weight of hardener 402 (Mat. No. 07-012).
NOTE : Required viscosity 24-30 sec., 4 mm DIN cup. Allow 20 min. reaction time before use.
NOTE : Pot life max. 12 hr. Pot life until rethinning to initial viscosity is required: appr. 4 hr.

4 Apply textured finish in 3-4 cross coats.
NOTE : Required coat thickness of textured finish 0.04-0.06 mm (0.0016-0.0024 in.).
NOTE : Textured finish is dust dry after 4 hr.; transport dry after 12 hr.; may be overpainted between 30 min. and 12 hr.; completely dry after 7 days at room temperature.
NOTE : If the drying time between the coats exceeds 12 hr., clean with thinner 62 (Mat. No. 07-012) or abrade and clean.
NOTE : Heat curing at 60° C (140° F): Dust dry after appr. 30 min. Transport dry after 60-90 min. Overpainting: without cleaning or abrading if heat-cured for max. 30 min. only.

(c)Close-Up

1 Remove adhesive tape and paper from adjoining components and from repaired component.
2 Install component in aircraft, if removed for repair.
3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

R **ON A/C ALL

2. Repair of Painted Components

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

A. GRP Components

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.
NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.
NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Adhesive Tape |
| (b) | Vibratory Sander |
| (c) | Emery Cloth, Grade 320-400 |
| (d) | Clean, Lint-Free Cloth |
| (e) | Spray Gun |
| (f) | Nozzle, 1.5 mm (0.06 in.) dia. |

| ITEM | DESIGNATION |
|---|---|
| (g) | DIN Cup, 4 mm |
| (h) | Dry, Clean, Compressed Air, 3-5 bar (44-73 psi) |
| (j)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (k)Material No. 16-046 | Structure Paints (Ref. 20-31-00) |
| (l)Material No. 16-047 | Structure Paints (Ref. 20-31-00) |

(2)Procedure

(a)Job Set-Up

1 Remove component from aircraft, if necessary.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

2 Clean component with cleaning agent (Mat. No. 11-010).

3 Mask adjoining components and undamaged area, of component being repaired, with adhesive tape and paper.

4 Abrade coat in area of repair with emery cloth, grade 320-400.

5 Clean abraded area with cleaning agent (Mat. No. 11-010).

(b)Repair

1 Prepare mix for smooth finish of 15 parts by weight of filler (Mat. No. 16-046) and 1 part by weight of hardener (Mat. No. 16-046). Add 10-30% thinner (Mat. No. 16-046) to attain desired viscosity of 17-23 sec., 4 mm DIN cup. Allow 15 min. reaction time before use.

NOTE : Pot life max. 16 hr. Pot life until rethinning to initial viscosity is required: 8-10 hr.

NOTE : Conditions for use
- Temperature 15-30° C (50-86° F)
- Relative humidity 35-75%

2 Apply smooth finish in 1-2 cross coats.

NOTE : Required coat thickness of smooth finish 0.05-0.10 mm (0.0020-0.0040 in.)

NOTE : Smooth finish is dust dry after 15 min.; transport dry after 25 min.; may be overpainted between 30 min. and 12 hr.; completely dry after 7 days at room temperature or after 12 hr. at 60° C (140° F).

NOTE : If the drying time between the coats exceeds 12 hr., clean with thinner (Mat. No. 16-046) and abrade and clean with cleaning agent (Mat. NO. 11-010).

NOTE : The coats are able for abrade or polish
- after 7.5 hr. at room temperature or
- after 5 hr. at 40° C (104° F) or
- after 2 hr. at 60° C (140° F)

3 Prepare mix for textured finish of 20 parts by weight of structure paint (Mat. No. 16-047) and 1 part by weight of hardener (Mat. No. 16-047).

NOTE : Required viscosity 17-23 sec., 4 mm DIN cup. Allow 15 min. reaction time before use.

NOTE : Pot life max. 8 hr. Pot life until rethinning to initial viscosity is required: appr. 4 hr.

NOTE : Conditions for use

- Temperature 15-30° C (59-86° F)
- Relative humidity 35-75%

4 Apply textured finish in 1-4 cross coats.

NOTE : Required coat thickness of textured finish 0.03-0.09 mm (0.0012-0.0035 in.).

NOTE : Textured finish is dust dry after 20 min.; transport dry after 8 hr.; may be overpainted between 20 min. and 12 hr.; completely dry after 7 days at room temperature or after 12 hr. at 60° C (140° F).

NOTE : If the drying time between the coats exceeds 12 hr., clean with thinner (Mat. No. 16-047) and abrade and clean with cleaning agent (Mat. No. 11-010).

NOTE : Heat curing at 60° C (140° F)
Transport dry after 40 min.
Overpainting: without cleaning or abrading if heat-cured for max. 20 min. only.

(c)Close-Up

1 Remove adhesive tape and paper from adjoining components and from repaired component.

2 Install component in aircraft, if removed for repair.

3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

B. Thermoplastic Components and Aluminium Parts

WARNING : CLEANING AGENT (MAT. NO. 11-10) IS DANGEROUS.

NOTE : This procedure is necessary to ensure that repairs are accordance with the requirements of FAR 25. 853 (a-1) at the passenger compartment.

NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.

NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Adhesive Tape |
| (b) | Vibratory Sander |
| (c) | Emery Cloth, Grade 320-400 |
| (d) | Clean, Lint-Free Cloth |
| (e) | Spray Gun |
| (f) | Nozzle, 1.5 mm (0.06 in.) dia. |
| (g) | DIN Cup, 4 mm |
| (h) | Dry, Clean, Compressed Air, 3-5 bar (44-73 psi) |
| (j)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (k)Material No. 16-047 | Structure Paints (Ref. 20-31-00) |

(2)Procedure
(a)Job Set-Up
1 Remove component from aircraft, if necessary.
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
2 Clean component with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.
3 Mask adjoining components and undamaged area, of component being repaired, with adhesive tape and paper.
4 Abrade coat in area of repair with emery cloth, grade 320-400.
5 Clean abraded area with cleaning agent (Mat. No. 11-010).

(b)Repair
1 Prepare mix for textured finish of 20 parts by weight of structure paint (Mat. No. 16-047) and 1 part by weight of hardener (Mat. No. 16-047).
NOTE : Required viscosity 17-23 sec., 4 mm DIN cup. Allow 15 min. reaction time before use.
NOTE : Pot life max. 8 hr. Pot life until rethinning to initial viscosity is required: appr. 4 hr.
NOTE : Conditions for use
- Temperature 15-30° C (59-86° F)
- Relative humidity 35-75%
2 Apply textured finish in 1-4 cross coats.
NOTE : Required coat thickness of textured finish 0.03-0.09 mm (0.00012-0.0035 in.)
NOTE : Textured finish is dust dry after 20 min. ; transport dry after 8 hr., may be overpainted between 20 min. and 12 hr.; completely dry after 7 days at room temperature or after 12 hr. at 60° C (140° F).
NOTE : If the drying time between the coats exceeds 12 hr., clean with thinner (Mat. No. 16-047) or abrade and clean.
NOTE : Heat curing at 60° C (140° F). Transport dry after 60-90 min.
Overpainting: without cleaning or abrading if heat-cured for max. 20 min. only.

(c)Close-Up
1 Remove adhesive tape and paper from adjoining components and from repaired component.
2 Install component in aircraft, if removed for repair.
3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

3. Repair of Decor Foil of Composite Components and Aluminum Parts

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
CAUTION : THE FOLLOWING METHOD IS ONLY ALLOWED FOR HOT-MELT DECOR FOIL.
CAUTION : DO NOT DAMAGE THE PREPREG SURFACE.
CAUTION : WEAR COTTON GLOVES TO KEEP SURFACE ABSOLUTELY CLEAN.
NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.
NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.
NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

A. Removal of Old Foil

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Electric Hot Air Blower |
| (b) | Sharp-Pointed Knife |
| (c) | Spatula |
| (d) | Clean Gloves, Cotton |
| (e) | Clean, Lint-Free Cloth |
| (f) | Emery Cloth, Grade 80 to 120 |
| (g)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

CAUTION : THE FOLLOWING METHOD IS ONLY ALLOWED FOR HOT-MELT DECOR FOIL.

(2)Job Set-Up

(a)Remove part from aircraft.

(3)Procedure

(a)Heat foil at an edge by applying hot air at a temperature of 100 ±10 °C (212 ±18 °F) using an electric hot air blower.

CAUTION : DO NOT DAMAGE THE PREPREG SURFACE.

(b)Incise bubble carefully using a sharp-pointed knife.

(c)Lift the cut edges of foil. Pull from center to edges.

NOTE : Steadily apply hot air.

(d)Pull off slowly approx. 15 cm (5.9 in.) wide strips of foil.

(e)Remove remaining adhesive with emery cloth, grade 80 to 100.

WARNING : CLEANING AGENT(MAT. NO. 11-010) IS DANGEROUS.

(f)Clean repair area using cleaning agent (Mat. No. 11-010) and clean, lint-free cloth.

CAUTION : WEAR COTTON GLOVES TO KEEP SURFACE ABSOLUTELY CLEAN.

(g)Make certain that cleaned area is dry.

B. Repair of Damaged Foil by Insertion

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

WARNING : ADHESIVE PRIMER (MAT. No. 08-006B) AND ACETONE ARE DANGEROUS.

CAUTION : DO NOT DAMAGE THE PREPREG SURFACE.

CAUTION : WEAR COTTON GLOVES TO KEEP SURFACE ABSOLUTELY CLEAN.

NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.

NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.

NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Sharp-pointed Knife |
| (b) | Clean, lint-free Cloth |
| (c) | Spatula |
| (d) | Adhesive Tape |
| (e) | Acetone |
| (f) | Roller, Rubber |
| (g) | Paintbrush |
| (h) | Clean Gloves, Cotton |
| (j) | Emery Cloth, Grade 80 to 100 |
| (k)Material No. 05-074 | Special Materials (Ref. 20-31-00) Alternative |
| (l)Material No. 05-083 | Special Materials (Ref. 20-31-00) Alternative |
| (m)Material No. 05-084 | Special Materials (Ref. 20-31-00) |
| (n)Material No. 08-006B | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (o)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(2)Job Set-Up

(a)Remove part from aircraft, if necessary.

(3)Procedure

CAUTION : DO NOT DAMAGE THE PREPREG SURFACE.

(a)Cut out a piece of foil surrounding the damaged area using a sharp-pointed knife.

(b)Remove carefully the piece of foil by lifting at one corner.

(c)Remove remaining adhesive with emery cloth, grade 80 to 100.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

(d)Clean repair area using cleaning agent (Mat. No. 11-010) and clean, lint-free cloth.

CAUTION : WEAR COTTON GLOVES TO KEEP SURFACE ABSOLUTELY CLEAN.

(e)Make certain that cleaned area is dry.

(f)Mask surrounding area with adhesive tape and paper.

(g)Cut new hot-melt decor foil (Mat. No. 05-074, 05-083 or 05-084) to size.

WARNING : ADHESIVE PRIMER (MAT. NO. 08-006B) AND ACETONE ARE DANGEROUS.

(h)Mix 2 parts of adhesive primer (Mat. No. 08-006B) and 1 part of

Acetone.
(j)Apply mixed primer to the surface equally and free of bubbles using a roller or a paintbrush.
(k)Allow primer to dry: 6 hours at room temperature, or 2 hours at 70 °C (158 °F).
(l)Apply new decor foil to prepared surface.
(m)Attach foil with light pressure and a temperature of 100 ±5 °C (212 ±9 °F) using an electric iron.
NOTE : There must be no edge overlap.
(p)Remove adhesive tape and paper from surrounding area.
(q)Clean complete surface of the part, using cleaning agent (Mat. No. 11-010) and clean, lint-free cloth.

C. Coating with Decor Foil (Cold Method)
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
WARNING : ADHESIVE PRIMER AND THINNER (MAT. No. 08-006B) ARE DANGEROUS.
CAUTION : WEAR COTTON GLOVES TO KEEP SURFACE ABSOLUTELY CLEAN.
CAUTION : DO NOT TOUCH ADHESIVE LAYER OF DECOR FOIL, OR PRIMER ON THE PART TO BE FOILED.
CAUTION : AVOID ANY BUBBLES.
NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.
NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.
NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Roller (for applying adhesive primer) |
| (b) | Dry, Lint-Free Cloth |
| (c) | Clean, Lint-Free Cloth |
| (d) | Sharp Knife (or Scissors) |
| (e) | Roller, Rubber |
| (f) | Clean Cloth, Cotton |
| (g) | Clean Gloves, Cotton |
| (h)Material No. 05-074 | Special Materials (Ref. 20-31-00) |
| (j)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (k)Material No. 16-023 | Structure Paints (Ref. 20-31-00) |

(2)Procedure
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
(a)Clean surface using cleaning agent (Mat. No. 11-010) and clean, lint-free cloth.
NOTE : The surface must be completely even.
CAUTION : WEAR CLEAN COTTON GLOVES TO KEEP SURFACE ABSOLUTELY CLEAN.
(b)Make certain that cleaned area is dry.
WARNING : ADHESIVE PRIMER AND THINNER (MAT. NO. 08-006 B) ARE DANGEROUS.

(c)Mix adhesive primer (Mat. No. 08-006 B) and Acetone as follows:
2 parts of primer by weight and 1 part by weight Acetone.
(d)Apply prepared adhesive primer to the surface equally and free of bubbles using a roller.
(e)Allow primer to dry: 12 hours at room temperature.
(f)Cut adhesive decor foil (Mat. No. 05-074) roughly to size.
CAUTION : DO NOT TOUCH ADHESIVE LAYER OF DECOR FOIL, OR PRIMER ON THE PART TO BE FOILED.
(g)Remove backing paper from decor foil over a small area.
(h)Attach decor foil to an edge of the part.
(j)Attach foil continously onto the part using a clean cotton cloth, progressively removing the backing paper.
CAUTION : AVOID ANY BUBBLES.

(k)Press fixed foil onto the part using a rubber roller.
(l)Attach foil at edges and contours.
(m)Cut off surplus foil.

(3)Close-Up
(a)Install part into aircraft.
(b)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

D. Coating with Decor Foil (Hot Method)

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

WARNING : ADHESIVE PRIMER (MAT. No. 08-006B) AND ACETONE ARE DANGEROUS.

CAUTION : WEAR COTTON GLOVES TO KEEP SURFACE ABSOLUTELY CLEAN.

NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.

NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.

NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Roller (for applying adhesive primer) |
| (b) | Clean, Lint-Free Cloth |
| (c) | Sharp Knife |
| (d) | Electric Hot Air Blower |
| (e) | Protective Strips |
| (f) | Foam Material |
| (g) | Rigid Surface |
| (h) | Autoclave |
| (j) | Electric Iron |
| (k) | Application Machine |
| (l) | Heatable Rubber Cloth |
| (m) | Fine Needle (or similar sharp-pointed instrument) |
| (n) | Roller, Rubber |
| (p) | Acetone |
| (q)Material No. 05-068 | Special Materials (Ref. 20-31-00) |
| (r)Material No. 05-069 | Special Materials (Ref. 20-31-00) |
| (s)Material No. 05-074 | Special Materials (Ref. 20-31-00) Alternative |
| (t)Material No. 05-083 | Special Materials (Ref. 20-31-00) Alternative |
| (u)Material No. 05-084 | Special Materials (Ref. 20-31-00) |
| (v)Material No. 08-006B | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (w)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

(a)Clean surface using cleaning agent (Mat. No. 11-010) and clean, lint-free cloth.

NOTE : The surface must be completely even.

CAUTION : WEAR CLEAN COTTON GLOVES TO KEEP SURFACE ABSOLUTELY CLEAN.

(b)Make certain that cleaned area is dry.

WARNING : ADHESIVE PRIMER (MAT. NO. 08-006B) AND ACETONE ARE DANGEROUS.

(c)Mix 2 parts of adhesive primer (Mat. No. 08-006B) to 1 part of Acetone.

(d)Apply prepared adhesive primer to the surface evenly and free of bubbles using a roller.

(e)Allow primer to dry:
4 hours at room temperature, or 2 hours at 70 °C (158 °F).
NOTE : Select and perform only one of the following worksteps (f), (g) or (h), depending on the shape of the part to be foiled and on the equipment that is available.

(f)Using a vacuum bag for slightly rounded parts:
1 Cut hot-melt decor foil (Mat. No. 05-074, 05-083 or 05-084) roughly to size.
2 Lay decor foil evenly with adhesive layer down.
3 Tack decor foil into position with light pressure and a temperature of approx. 95 °C (203 °F) using an electric hot air blower.
4 Support and protect the protruding edges of decor foil to avoid distortion.
5 Position a layer of foam material, thickness approx. 10mm (0.4 in.), onto the foil.
6 Produce a vacuum bag out of vacuum foil (Mat. No. 05-068).
NOTE : Lay the repair area on a rigid surface.
7 Seal vacuum bag by welding or bonding with heat-resistant tacky tape (Mat. No. 05-069).
8 Apply a vacuum of -0.6 ±0.05 bar (-8.70 ±0.73 lbs.sq.in.).
NOTE : Puncture vacuum foil - max. dia. 0.7mm (0.028 in.) - so that vacuum bag will be completely tight.
9 Heat prepared vacuum bag to a temperature of 85 ±5 °C (185 ±9 °F) for 15 min.
NOTE : The vacuum bag must be heated uniformly.
10 Allow the bonded part inside of vacuum bag to cool to a temperature of approx. 40 °C (104 °F).
11 Bond the protruding edges of decor foil onto the edges of the part. Apply light pressure and a temperature of approx. 85 °C (185 °F) using an electric iron.
12 Cut off surplus decor foil.

(g)Using an application machine for level surfaces:
1 Cut hot-melt decor foil (Mat. No. 05-074, 05-083 or 05-084) roughly to size.
2 Lay foil evenly with adhesive layer down.
3 Tack decor foil into position with light pressure and a temperature of approx. 95 °C (203 °F) using an electric hot air blower.
4 Position a layer of foam material, thickness approx. 10mm (0.4 in.), onto the foil.
NOTE : The application machine works at a temperature of 95 ±5 °C (203 ±9 °F) - (measured within the bonding) for 5 min. and a vacuum rate of -0.6 ±0.05 bar (-8.70 ±0.73 lbs.sq.in.). Before reaching the bonding temperature the vacuum rate must be -0.2 ±0.05 bar (-2.90 ±0.73 lbs.sq.in.).

(h)Using prefabricated devices for parts with curved or complicated shapes:
1 Cut hot-melt decor foil (Mat. No. 05-074, 05-083 or 05-084) to size.
NOTE : Establish size of foil using the work object as a template.

2 Make certain that the cut foil is located above the part, but approx. 50 to 75 mm (2 to 3 in.) away from it, and without folds.
3 Make a vacuum bag out of vacuum foil (Mat. No. 05-068).
NOTE : Lay the repair area on a prefabricated device to avoid distortion.
4 Begin heating the vacuum bag until a temperature of approx. 60 to 70 °C (140 to 158 °F) is reached.
NOTE : The vacuum bag must be heated uniformly.
5 Press a heatable rubber cloth smoothly onto adhesive foil and apply a vacuum of -0.4 bar (-5.80 lbs.sq.in.).
NOTE : Make certain that no gas-filled bubbles remain in the vacuum bag due to the complicated shape of the part.
Puncture vacuum bag at those areas, if necessary.
6 When the temperature has reached 100 ±5 °C (212 ±9 °F), make certain that decor foil and part are being pressed together during 4 min. with a vacuum of -0.8 bar (-11.60 lbs.sq.in.).
7 Before taking the foiled parts out of vacuum bag allow parts to cool down to a temperature of 40 °C (104 °F) or less.
NOTE : To increase the adhesive power in critical areas, raise bonding and curing temperature using an electric hot air blower with max. 50 °C (122 °F), and a light pressure using a rubber roller.

(j)Finishing
NOTE : The finishing always has to be completed as a follow-up to the worksteps of (f), (g) or (h) (whichever selected).
1 Attach foil on edges and contours, if necessary, at a temperature of 100 ±5 °C (212 ±9 °F) using an electric iron, or a hot air blower and a rubber roller.
2 Cut off surplus foil using a sharp knife.

(k)Close-Up
1 Install part.
2 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

4. Repair of Polycarbonate Sheet Components
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
CAUTION : THIS REPAIR MUST ONLY BE CARRIED OUT WHEN DISTANCE FROM DAMAGE AREA TO ATTACH OR SUPPORT POINTS EXCEEDS 40 x COMPONENT THICKNESS.

A. Components Consisting of a Single Sheet of PC
NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.
NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.
NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.
NOTE : With component consisting of a single layer of PC, nonstructural repairs are carried out in the same way as structural repairs.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 320-400 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Separating Foil |
| (d) | Rubber Base Plate |
| (e) | Polycarbonate Sheet up to 6 mm (0.24 in.) thick |
| (f) | Spatula |
| (g) | Brush |
| (h) | Drill, 6 mm (0.24 in.) Dia. |
| (j) | Milling Cutter |
| (k)Material No. 05-033 | Special Materials (Ref. 20-31-00) |
| (l)Material No. 08-025 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (m)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure
(Ref. Fig. 801)

(a)Prepare component for repair.

1 If necessary, remove component to be repaired.

2 Stop-drill ends of crack using drill of approx. 6 mm (0.24 in.) dia.

3 Prepare area of penetrating damage using drill or milling cutter.

(b)Repair of damage less than 10 mm (0.40 in.) dia.

CAUTION : THIS REPAIR MUST ONLY BE CARRIED OUT WHEN DISTANCE FROM DAMAGE AREA TO ATTACH OR SUPPORT POINTS EXCEEDS 40 x COMPONENT THICKNESS.

1 Mask off damage area on front side with separating foil (1).

2 Press component (3) against rubber base plate (2).

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

3 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.

4 Fill damage area with filler (4) (Mat. No. 08-025).

NOTE : Curing time 1 hr. max., pot life 10 min. approx.

5 Pull off separating foil (1) from damage area.

6 If necessary, fill any uneven areas with filler (Mat. No. 08-025) and rub down with emery cloth, grade 320-400.

(c)Repair of damage greater than or equal to 10 mm (0.40 in.) dia.

1 Cut out repair plug of suitable size from PC sheet.

2 Chamfer bonding edges of component (5) and repair plug (7) to approx. 45°.

3 Mask off damage area on front side with separating foil (1).

4 Press component (5) against rubber base plate (2).

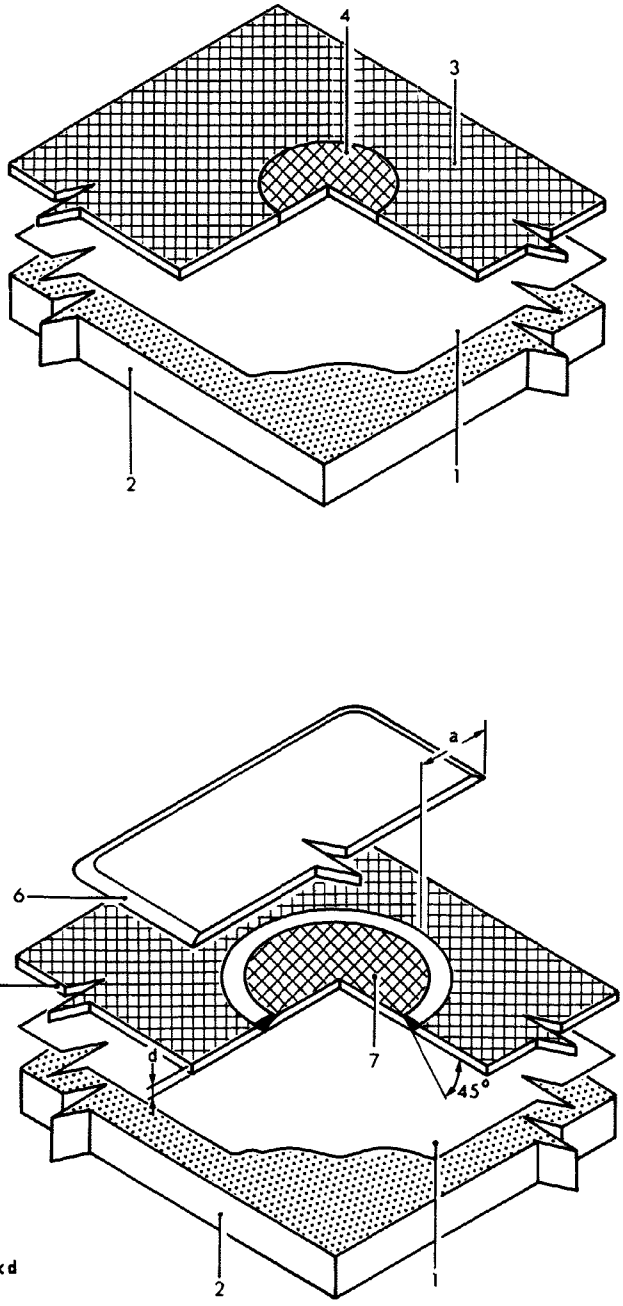
5 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No.11-010) and clean lint-free cloth.

6 Bond repair plug (7) in position with filler (Mat. No. 08-025).

7 Apply filler (Mat. No. 08-025) to repair area.

8 Lay on GRP stiffener (6) (Mat. No. 05-033).

NOTE : Total thickness of cloth layers must equal 0.5 x component thickness. The minimum distance from edge of GRP stiffener to repair plug must equal 20 x component thickness.

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Repair of Components Consisting of a Single Sheet of PC
Figure 801

NOTE : With flat components, a PC sheet to suit the component thickness can be bonded in position instead of the GRP stiffener.

9 Pull off separating foil (1) from damage area.

10 If necessary, fill any uneven areas with filler (Mat. No. 08-025) and rub down with emery cloth, grade 320-400.

(d)Close-Up

1 Apply a coating of paint finish as required.

2 Install component in aircraft, if removed for repair.

3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

B. Polycarbonate Composite Components

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

CAUTION : THE DISTANCE FROM DAMAGE AREA TO EDGE OF COMPONENT MUST EXCEED 300 x THICKNESS OF GRP OR 100 x THICKNESS OF DAMAGED PC SURFACE COATING, WHICHEVER IS THE GREATER. THE DISTANCE FROM THE NEXT ATTACH OR SUPPORT POINT OF THE COMPONENT, OR FROM THE CONNECTION TO A FURTHER COMPONENT, MUST EXCEED 800 x THICKNESS OF GRP or 250 x THICKNESS OF DAMAGED PC SURFACE COATING, WHICHEVER IS THE GREATER. DISTANCE FROM OTHER REPAIR AREAS MUST EXCEED 500 x THICKNESS OF GRP OR 150 x THICKNESS OF DAMAGED PC SURFACE COATING, WHICHEVER IS THE GREATER.

NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.

NOTE : The procedures for repairing damage to PC coatings, honeycomb and GRP are similar.

(1)Reasons for the Job

(a)Repair of damage to PC coating

(b)Repair of damage to honeycomb and GRP

(2)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 320-400 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Separating Foil |
| (d) | Rubber Base Plate |
| (e) | Polycarbonate Sheet up to 6 mm (0.24 in.) thick |
| (f) | Spatula |
| (g) | Brush |
| (h) | Drill, 6 mm (0.24 in.) dia. |
| (j) | Milling Cutter |
| (k)Material No. 05-033 | Special Materials (Ref. 20-31-00) |
| (l)Material No. 05-075 | Special Materials (Ref. 20-31-00) Alternative |
| (m)Material No. 05-085 | Special Materials (Ref. 20-31-00) |
| (n)Material No. 08-025 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (p)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(3)Procedure

(Ref. Fig. 802)

(a)Prepare component for repair.

1 If necessary, remove component to be repaired.

2 Widen crack in PC layer using suitable tool.

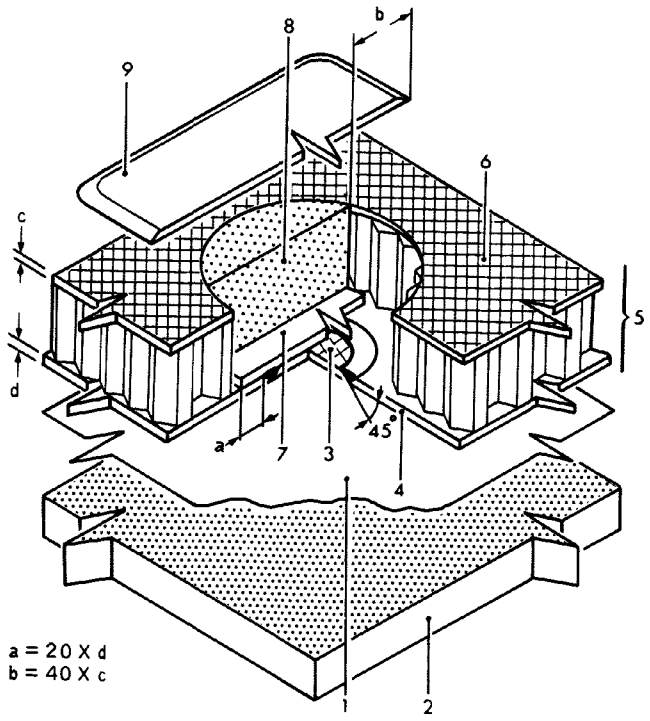
NOTE : Width of crack to correspond approx. to thickness of material.

3 Stop-drill ends of crack using drill of 6 mm (0.24 in.) dia.

4 Prepare core material using drill or milling cutter.

5 Prepare reverse side of GRP surface using drill or milling cutter.

NOTE : The minimum distance from edge of stiffener (7) to damage area must equal 20 x thickness of PC component.

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Repair of Polycarbonate Composite Components
Figure 802

6 Cut repair plug (3), rigid foam (8) (Mat. No. 05-075) or nomex comb (Mat. No. 05-085) and GRP stiffeners (7, 9) to size.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

7 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.

(b)Repair of damage less than 10 mm (0.40 in.) dia. at upper surface and at core material on flat and curved components:

1 Mask off damage area on front side with separating foil (1).
2 Press component (5) against rubber base plate (2).
3 From reverse side, fill damage area with filler (Mat. No. 08-025).
NOTE : Curing time 1 hr. max., pot life approx. 10 min.
4 Pull off separating foil (1) from damage area.
5 If necessary, fill in any uneven areas with filler (Mat. No. 08-025) and rub down with emery cloth, grade 320-400.

(c)Repair of damage greater than or equal to 10 mm (0.40 in.) dia. at upper surface and at core material on flat components:

1 Chamfer bonding edges of PC surface coating (4) and PC repair plug (3) to 45°.
2 Mask off damage area on front side with separating foil (1).
3 Press component (5) against rubber base plate (2).
4 Bond repair plug (3) in position with filler (Mat. No. 08-025).
5 Coat repair area with filler (Mat. No. 08-025).
6 Lay on PC stiffener (7).
NOTE : Use glass fiber cloth (Mat. No. 05-033) if component is curved.
7 Coat rigid foam (8) (Mat. No. 05-075) or nomex comp (Mat. No. 05-085), PC stiffener (7) and honeycomp with filler (Mat. No. 08-025).
8 Bond in rigid foam (8) (Mat. No. 05-075) or nomex comp (Mat. No. 05-085).
9 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.
10 Coat repair with filler (Mat. No. 08-025).
11 Lay on glass fiber cloth (Mat. No. 05-033) stiffener (9).
NOTE : The total thickness of cloth layers must equal original thickness of GRP layer. The minimum distance from edge of stiffener (9) to rigid foam or nomex comp (8) must equal 40 x thickness of GRP component (6).
NOTE : With composite components having a PC reverse side, PC plates chamfered along the edges are bonded in position instead of GRP stiffeners.
12 Pull off separating foil (1) from damage area.
13 If necessary, fill in any uneven areas on front side with filler (Mat. No. 08-025) and rub down with emery cloth, grade 320-400.

(d)Close-Up

1 Apply a coating of paint finish, as required.
2 Install component in aircraft, if removed for repair.
3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

5. Repair of Composite Components

A. Structural Repair

WARNING : CLEANING AGENT (MAT. NO. 11-010) AND (MAT. NO. 11-002C) ARE DANGEROUS.

WARNING : BONDING AND ADHESIVE COMPOUNDS (MAT. NO. 08-037) IS DANGEROUS.

CAUTION : THE DISTANCE FROM DAMAGE AREA TO EDGE OF COMPONENT MUST EXCEED 300 x THICKNESS OF DAMAGED FACING SHEET.

CAUTION : THE DISTANCE FROM DAMAGE AREA TO THE NEXT ATTACH POINT OF THE COMPONENT, OR TO THE CONNECTION OF A FURTHER COMPONENT, MUST EXCEED 800 x THICKNESS OF DAMAGED FACING SHEET.

CAUTION : THE DISTANCE FROM DAMAGE AREA TO OTHER REPAIR AREAS MUST EXCEED 500 x THICKNESS OF DAMAGED FACING SHEET.

NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.

NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.

NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

NOTE : For repairs to composite floor panels, refer to 53-10-20, P. Block 801.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Clean, Lint-Free Cloth |
| (b) | Adhesive Tape |
| (c) | Brush |
| (d) | Drill, 6 mm (0.24 in.) dia. |
| (e) | Tungsten Carbide Cutter |
| (f) | Emery Cloth, Grade 320-400 |
| (g) | Silicone Mold |
| (h)Material No. 05-056 | Special Materials (Ref. 20-31-00) |
| (j)Material No. 05-075 | Special Materials (Ref. 20-31-00) Alternative |
| (k)Material No. 05-085 | Special Materials (Ref. 20-31-00) |
| (l)Material No. 08-037 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (m)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure
(Ref. Fig. 803)

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(a)Prepare component for repair.

1 If necessary, remove component to be repaired from aircraft.

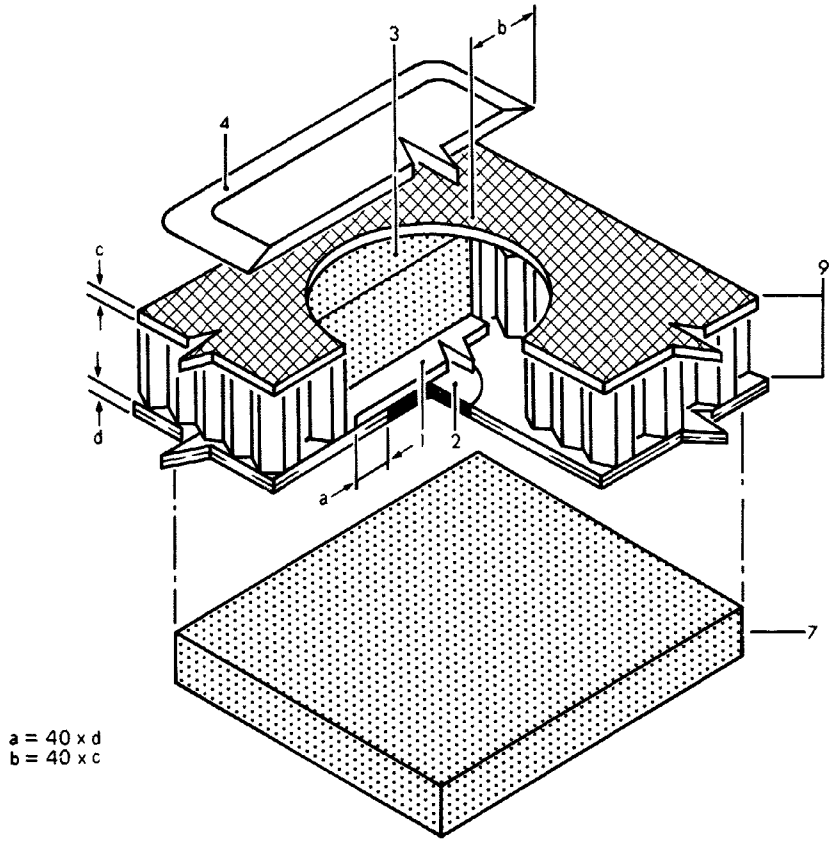
2 Stop-drill ends of crack using drill, 6 mm (0.24 in.) dia.

3 Dress edges of penetration damage using drill or milling cutter.

4 Cut out core material.

5 Remove layer of GRP at reverse side.

6 Cut out rigid foam (Mat. No. 05-075) or nomex comp (Mat. No. 05-085)

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Structural Repair of Composite Components
Figure 803

(3) GRP stiffeners (1) and (4) to suitable sizes.
NOTE : The minimum distance from edge of stiffener (1) to edge of damage area must be 40 x thickness of GRP layer (9).
NOTE : Thickness of GRP stiffener (1) to equal thickness of GRP layer (9).
NOTE : The minimum distance from edge of stiffener (4) to rigid foam or nomex comp (3) must be 40 x thickness of GRP layer (9).
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
7 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.

(b)Repair of components consisting of GRP, core material and GRP.
1 Cover repair area on front side with silicone mold (7) and secure with adhesive tape.
WARNING : BONDING AND ADHESIVE COMPOUNDS (MAT. NO. 08-037) IS DANGEROUS.
2 Prepare mix consisting of 100 parts by weight of filler (Mat. No. 08-037) and 21 parts by weight of hardener (Mat. No. 08-037)
3 Fill damage area with filler (2).
NOTE : Pot life of mix is 20 min. at 20 °C (68 °F).
NOTE : Curing time of mix is:
24 hr. at 20 °C (68 °F)
5 hr. at 50 - 80 °C (122 - 176 °F)
4 Coat repair area and GRP stiffener (1) with filler (Mat. No. 08-037).
5 Bond GRP stiffener (1) in position.
6 Coat rigid foam or nomex comp (3), GRP stiffener (1) and honeycomb with filler (Mat. No. 08-037).
7 Bond rigid foam (Mat. No. 05-075) or nomex comp (Mat. No. 05-085) (3) in position.
8 Coat repair area with filler (Mat. No. 08-037).
NOTE : Observe processing time.
9 Laminate repair area with GRP stiffener (4) (Mat. No. 05-056).
NOTE : Number of glass fiber layers to correspond to original construction.
10 Remove silicone mold (7).

(d)Close-Up
1 Apply a coating of paint finish, if required.
2 Install component in aircraft, if removed for repair.
3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

B. Nonstructural Repair
WARNING : CLEANING AGENT (MAT. NO. 11-002C) IS DANGEROUS.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Drill, 6 mm (0.24 in.) dia. |
| (b) | Tungsten Carbide Cutter |
| (c) | Emery Cloth, Grade 320-400 |
| (d) | Brush |
| (e) | Clean, Lint-Free Cloth |
| (f)Material No. 05-035 | Special Materials (Ref. 20-31-00) |

| ITEM | DESIGNATION |
|---|---|
| (g)Material No. 08-001 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (h)Material No. 11-002C | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure

(a)Prepare component for repair.

1 If necessary, remove component to be repaired.

2 Stop-drill ends of crack using drill of approx. 6 mm (0.24 in.) dia.

3 Dress edges of any penetration damage using drill or milling cutter.

WARNING : CLEANING AGENT (MAT. NO. 11-002C) IS DANGEROUS.

4 Clean damage area with cleaning agent (Mat. No. 11-002C) and clean lint-free cloth.

(b)Method

1 Fill damage area with filler (Mat. No. 08-001) and, if necessary, suitably sized piece of rigid foam (Mat. No. 05-035).

2 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-002C) and clean lint-free cloth.

3 If necessary, fill in any uneven areas with filler (Mat. No. 08-001).

4 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-002C) and clean lint-free cloth.

(c)Close-Up

1 Apply a coating of paint finish, if required.

2 Install component in aircraft, if removed for repair.

3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

C. Repair of Surface Damage of Composite Components:
depressions of up to 1 mm (0.04 in.)

WARNING : CLEANING AGENT (MAT. NO. 11-002C) IS DANGEROUS.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 320-400 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Spatula |
| (d)Material No. 08-036 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (e)Material No. 11-002C | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure

(a)Prepare component for repair.

1 If necessary, remove component to be repaired.

WARNING : CLEANING AGENT (MAT. NO. 11-002C) IS DANGEROUS.

2 Clean damage area with cleaning agent (Mat. No. 11-002C) and clean lint-free cloth.

(b)Repair

1 Prepare mix consisting of 100 parts by weight of filler

(Mat. No. 08-036) and 1.5-2.5 parts by weight of hardener (Mat. No. 08-036).

NOTE : Processing time at least 30 min.

NOTE : Curing time before application max. 2 hr.

NOTE : The mix is cold setting at room temperature.

2 Apply mix with spatula.

3 If necessary, abrade repair area with emery cloth, grade 320-400 and clean off with cleaning agent (Mat. No. 11-002C) and lint-free cloth.

(c)Close-Up

1 Apply a coating of paint finish, if required.

2 Install component, if removed for repair.

3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

D. Repair of Surface Damage of Composite Components:
depressions exceeding 1 mm (0.04 in.)
WARNING : CLEANING AGENT (MAT. NO. 11-002C) IS DANGEROUS.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 320-400 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Spatula |
| (d)Material No. 05-057 | Special Materials (Ref. 20-31-00) |
| (e)Material No. 08-010A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (f)Material No. 11-002C | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure
(a)Prepare component for repair.
1 If necessary, remove component to be repaired.
WARNING : CLEANING AGENT (MAT. NO. 11-002C) IS DANGEROUS.
2 Clean damage area with cleaning agent (Mat. No. 11-002C) and clean lint-free cloth.
(b)Repair
1 Prepare mix consisting of 100 parts by weight of filler (Mat. No. 08-010A), enriched with microballoons (Mat. No. 05-057) and 60 parts by weight of hardener (Mat. No. 08-010A).
NOTE : Processing time 40 min.
NOTE : Curing time before application 24 hr. at room temperature, 30 min. at 70° C (158° F).
2 Apply mix with spatula.
3 Abrade repair area with emery cloth, grade 320-400 and clean off with cleaning agent (Mat. No. 11-002C) and clean lint-free-cloth.
4 If necessary, fill any uneven areas with filler (Mat. No. 08-010A).
5 Abrade repair area with emery cloth, grade 320-400 and clean off with cleaning agent (Mat. No. 11-002C) and clean lint-free cloth.
(c)Close-Up
1 Apply a coating of paint finish, if required.
2 Install component, if removed for repair.
3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

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E. Structural Repair
WARNING : CLEANING AGENT (MAT. NO. 11-010) AND (MAT. NO. 11-002C) ARE DANGEROUS.
WARNING : BONDING AND ADHESIVE COMPOUNDS (MAT. NO. 08-037) IS DANGEROUS.
CAUTION : THE DISTANCE FROM DAMAGE AREA TO EDGE OF COMPONENT MUST EXCEED 300 x THICKNESS OF DAMAGED FACING SHEET.
CAUTION : THE DISTANCE FROM DAMAGE AREA TO THE NEXT ATTACH POINT OF THE COMPONENT, OR TO THE CONNECTION OF A FURTHER COMPONENT, MUST

EXCEED 800 x THICKNESS OF DAMAGED FACING SHEET.

CAUTION : THE DISTANCE FROM DAMAGE AREA TO OTHER REPAIR AREAS MUST EXCEED 500 x THICKNESS OF DAMAGED FACING SHEET.

NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.

NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.

NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

NOTE : For repairs to composite floor panels, refer to 53-10-20, P. Block 801.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Clean, Lint-Free Cloth |
| (b) | Adhesive Tape |
| (c) | Brush |
| (d) | Drill, 6 mm (0.24 in.) dia. |
| (e) | Tungsten Carbide Cutter |
| (f) | Emery Cloth, Grade 320-400 |
| (g) | Silicone Mold |
| (h)Material No. 05-056 | Special Materials (Ref. 20-31-00) |
| (j)Material No. 05-075 | Special Materials (Ref. 20-31-00) Alternative |
| (k)Material No. 05-085 | Special Materials (Ref. 20-31-00) |
| (l)Material No. 08-037 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (m)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure

(Ref. Fig. 803)

(a)Prepare component for repair.

1 If necessary, remove component to be repaired from aircraft.

2 Stop-drill ends of crack using drill, 6 mm (0.24 in.) dia.

3 Dress edges of penetration damage using drill or milling cutter.

4 Cut out core material.

5 Remove layer of GRP at reverse side.

6 Cut out rigid foam (Mat. No. 05-075) or nomex comb (Mat. No. 05-085) (3) and GRP stiffeners (1) and (4) to suitable sizes.

NOTE : The minimum distance from edge of stiffener (1) to edge of damage area must be 40 x thickness of GRP layer (9).

NOTE : Thickness of GRP stiffener (1) to equal thickness of GRP layer (9).

NOTE : The minimum distance from edge of stiffener (4) to rigid foam (Mat. No. 05-075) or nomex comb (Mat. No. 05-085) (3) must be 40 x thickness of GRP layer (9).

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

7 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.

(b)Repair of components consisting of GRP, core material and GRP.

1 Cover repair area on front side with silicone mold (7) and secure with adhesive tape.

WARNING : BONDING AND ADHESIVE COMPOUNDS (MAT. NO. 08-037) IS DANGEROUS.

2 Prepare mix consisting of 100 parts by weight of filler (Mat. No. 08-037) and 21 parts by weight of hardener (Mat. No. 08-037)

3 Fill damage area with filler (2).

NOTE : Pot life of mix is 20 min. at 20 °C (68 °F).

NOTE : Curing time of mix is:
24 hr. at 20 °C (68 °F)
5 hr. at 50 - 80 °C (122 - 176 °F)

4 Coat repair area and GRP stiffener (1) with filler (Mat. No. 08-037).

5 Bond GRP stiffener (1) in position.

6 Coat rigid foam or nomex comp (3), GRP stiffener (1) and honeycomb with filler (Mat. No. 08-037).

7 Bond rigid foam (Mat. No. 05-075) or nomex comb (Mat. No. 05-085) (3) in position.

8 Coat repair area with filler (Mat. No. 08-037).

NOTE : Observe processing time.

9 Laminate repair area with GRP stiffener (4) (Mat. No. 05-056).

NOTE : Number of glass fiber layers to correspond to original construction.

10 Remove silicone mold (7).

(d)Close-Up

1 Apply a coating of paint finish, if required.

2 Install component in aircraft, if removed for repair.

3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

B. Nonstructural Repair

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.

NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.

NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Drill, 6 mm (0.24 in.) dia. |
| (b) | Tungsten Carbide Cutter |
| (c) | Emery Cloth, Grade 320-400 |
| (d) | Brush |
| (e) | Clean, Lint-Free Cloth |
| (f)Material No. 05-075 | Special Materials (Ref. 20-31-00) Alternative |
| (g)Material No. 05-085 | Special Materials (Ref. 20-31-00) |
| (h)Material No. 08-001 | Bonding and Adhesive Compounds (Ref. 20-31-00) |

| ITEM | DESIGNATION |
|---|---|
| (j)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure
(a)Prepare component for repair.
1 If necessary, remove component to be repaired.
2 Stop-drill ends of crack using drill of approx. 6 mm (0.24 in.) dia.
3 Dress edges of any penetration damage using drill or milling cutter.
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
4 Clean damage area with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.
(b)Method
1 Fill damage area with filler (Mat. No. 08-001) and, if necessary, suitably sized piece of rigid foam (Mat. No. 05-075) or nomex comp (Mat. No. 05-085).
2 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.
3 If necessary, fill in any uneven areas with filler (Mat. No. 08-001).
4 Abrade repair area with emery cloth, grade 320-400 and clean with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.
(c)Close-Up
1 Apply a coating of paint finish, if required.
2 Install component in aircraft, if removed for repair.
3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

C. Repair of Surface Damage of Composite Components:
depressions of up to 1 mm (0.04 in.)
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.
NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.
NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 320-400 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Spatula |
| (d)Material No. 08-036 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (e)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure
(a)Prepare component for repair.

1 If necessary, remove component to be repaired.
WARNING : CLEANING AGENTS (MAT. NO. 11-010) IS DANGEROUS.
2 Clean damage area with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.

(b)Repair
1 Prepare mix consisting of 100 parts by weight of filler (Mat. No. 08-036) and 1.5-2.5 parts by weight of hardener (Mat. No. 08-036).
NOTE : Processing time at least 30 min.
NOTE : Curing time before application max. 2 hr.
NOTE : The mix is cold setting at room temperature.
2 Apply mix with spatula.
3 If necessary, abrade repair area with emery cloth, grade 320-400 and clean off with cleaning agent (Mat. No. 11-010) and lint-free cloth.

(c)Close-Up
1 Apply a coating of paint finish, if required.
2 Install component, if removed for repair.
3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

D. Repair of Surface Damage of Composite Components:
depressions exceeding 1 mm (0.04 in.)
WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.
NOTE : This procedure is necessary to ensure that repairs are in accordance with the requirements of FAR 25. 853 (a-1) for the passenger compartment.
NOTE : Procedure allowable for repaired surfaces smaller than two square-feet.
NOTE : Procedure allowable for repaired surfaces greater than two square-feet, but only if partial components affected.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 320-400 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Spatula |
| (d)Material No. 05-057 | Special Materials (Ref. 20-31-00) |
| (e)Material No. 08-010A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (f)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

(2)Procedure
(a)Prepare component for repair.
1 If necessary, remove component to be repaired.
WARNING : CLEANING AGENTS (MAT. NO. 11-010) IS DANGEROUS.
2 Clean damage area with cleaning agent (Mat. No. 11-010) and lint-free cloth.

(b)Repair
1 Prepare mix consisting of 100 parts by weight of filler

(Mat. No. 08-010A), enriched with microballoons (Mat. No. 05-057) and 60 parts by weight of hardener (Mat. No. 08-010A).

NOTE : Processing time 40 min.

NOTE : Curing time before application 24 hr. at room temperature, 30 min. at 70° C (158° F).

2 Apply mix with spatula.

3 Abrade repair area with emery cloth, grade 320-400 and clean off with cleaning agent (Mat. No. 11-010) and clean lint-free cloth.

4 If necessary, fill any uneven areas with filler (Mat. No. 08-010A).

5 Abrade repair area with emery cloth, grade 320-400 and clean off with cleaning agent (Mat. No. 11-010) and lint-free cloth.

(c)Close-Up

1 Apply a coating of paint finish, if required.

2 Install component, if removed for repair.

3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

6. Repair of Mylar Sheets

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

CAUTION : USE CLEANING AGENT SPARINGLY. AN EXCESSIVE AMOUNT WILL DISSOLVE MYLAR SHEET ADHESIVE.

A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Tape, Mylar Foil, 50 mm (2 in.) width |
| (2) | Tape, Mylar Foil, 500 mm (20 in.) width |
| (3)Material No. 08-057 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (4)Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

B. Procedure

(1)Job Set-Up

(a)Cut out torn, blistered, or loose Mylar sheet. Make cuts rectangular to ease repair.

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

CAUTION : USE CLEANING AGENT SPARINGLY. AN EXCESSIVE AMOUNT WILL DISSOLVE MYLAR SHEET ADHESIVE.

(b)Clean repair area using cleaning agent (Mat. No. 11-003).

(2)Repair

(a)Position Mylar tape patch over area to be repaired. Patch must overlap Mylar sheets by approximately 25 mm (1 in.) at all edges.

(b)Press patch to ensure good adhesion.

(c)Apply a coating of adhesive (Mat. No. 08-057) to repair area, allow to dry.

(3)Close-Up

(a)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

7. Repair of Airfloor Floor Covering

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Chisel |
| (2) | Adhesive Tape |
| (3) | Toothed Spatula |
| (4) | Carpet Knife |
| (5) | Expanded Rubber Roller |
| (6) | Hot Air Device (Blower) up to 200 °C) (392 °F) |
| (7) | Airfloor Floor Covering (NTF) |
| (8)Mat. No (demanded) | Silicone Rubber R-VP3112 F<br>with Curing Agent VPR 3233 B<br>(Rapid Repair Paste)<br>Manufacturer: WACKER CHEMIE<br>Johannes Hess Str. 24<br>D-8263 Burghausen/Oberbayern<br>W. Germany. |
| (9)Material No. 09-036 | Sealants (Ref. 20-31-00) |
| 10)Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| 11)Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

B. Procedure

(Ref. Fig. 804)

(1)Repair of AIRFLOOR floor covering.

(a)Mark out the area to be replaced, using a felt marker pen, preferably in the form of a rectangle in the grooves between the rows of the cable-stitch pattern.

(b)Using a carpet knife, carefully cut through the silicone rubber to the phenolic resin laminate beneath.

NOTE : Do not cut the phenolic resin laminate.

(c)Lift up the damaged surface in small sections of 2-3 rows width by approx. 1 cm (0.39 in.) in length and in the direction of the cable-stitch pattern using a chisel or a broad screw driver.

(d)Slowly and carefully pull away the 2-3 rows of the material using pliers.

(e)Repeat step c and d until the marked area has been exposed.

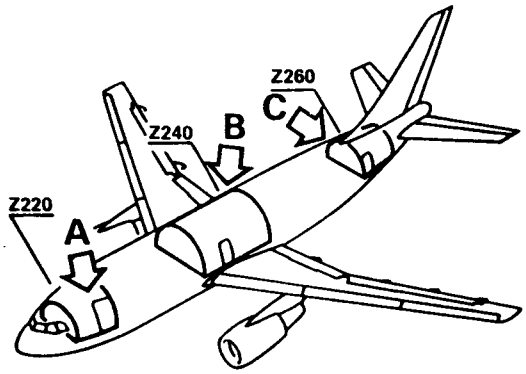
WARNING : CLEANING AGENT (MAT. No. 11-003) IS DANGEROUS.

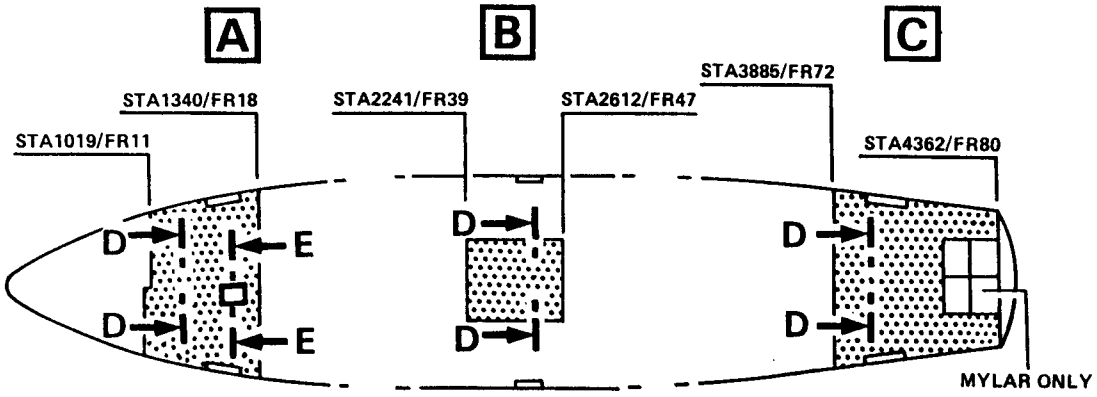
(f)Clean the exposed area and the adjoining edges with cleaning agent (Mat. No. 11-003) using clean lint-free cloth.

(g)Cut the replacement Airfloor floor covering to size, allowing a gap equivalent to one row of cable-stitch pattern between the replacement sheet and each edge of the exposed area, for the sealing of the joints.

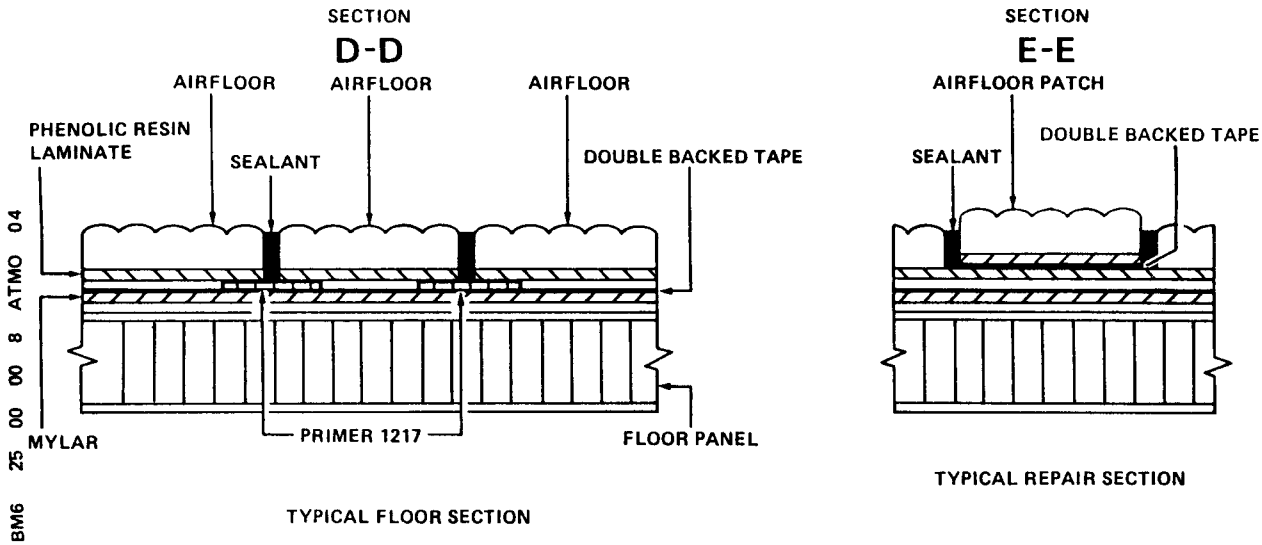
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(h)Clean the smooth reverse side of the replacement Airfloor floor covering with cleaning agent (Mat. No. 11-003) and clean lint-free cloth.




NOTE: TYPICAL FLOOR COVERING ARRANGEMENT WITH FWD, CENTER AND AFT GALLEYS INSTALLED




Airfloor Floor Covering
Figure 804

(j)Spread silicone adhesive (Mat. No. 08-004) onto the cleaned floor area using a toothed spatula. Apply the adhesive as thinly as possible leaving a gap the width of one row of cable-stitch pattern all around the repair area.

NOTE : The thickness of the adhesive should not exceed approx. 0.2 mm (0.008 in.).

(k)Place the replacement Airfloor floor covering onto the exposed area of floor.

(l)Apply light pressure to the Airfloor floor covering using a broad rubber roller.

(m)Carry out the sealing of joints using Rapid or Standard Repair Process, depending upon time and materials available.

(n)For Rapid Repair Process:

1 Prepare mix of 99 parts by weight of silicone rubber R-VP3112F (Mat. No. demanded) and 1 part by weight of curing agent VPR3233B (Mat. No. demanded).

2 Apply adhesive tape to either side of the joints.

3 Spread on the sealing paste and smooth with a narrow spatula.

4 Warm up joint using a hot air blower with air jet for approx. 1 minute at a constant temperature of 200 °C (392 °F).

CAUTION : DO NOT HEAT FOR TOO LONG OTHERWISE THE PHENOLIC RESIN LAMINATE MAY BE DAMAGED AND JOINT MAY ARCH.

5 Remove adhesive tape from joints when joints have dried.

(p)For Standard Repair Process

1 Use sealant (Mat. No. 09-036).

2 Apply adhesive tape to either side of joints.

3 Spread on sealant (Mat. No. 09-036) and smooth with a narrow spatula.

NOTE : Standard Repair joints will require time to cure prior to floor repair being 'walkable' (time depends upon air temperature and humidity).
For optimal reaction it is advantageous to have a high humidity together with a temperature of up to 30 °C (86 °F). With low humidity (<58 %) and low temperature (<15 °C, <5 °F) the adhesive requires longer to react. After 4 hours at 17 °C (63 °F) and 75 % humidity the floor covering is 'walkable'.

4 Remove adhesive tape when joints have cured.

(2)Close-Up

(a)Make certain that working area is clean and clear of tools and miscellanoeus items of equipment.

8. Not Applicable

R 9. Temporary Repair of Cargo Compartment Linings

A. Temporary Repair using Pressure-Sensitive Tape

NOTE : This repair is no more available.

R 10. Replacement of Cargo Compartment Linings

R A. Replacement of Cargo Compartment Ceiling Panels

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Sharp Knife |
| (d) | Small Hacksaw |
| (e) | Drilling Machine |
| (f) | Honeycomb Section Sheet, Ceiling Panels<br>AAR Cadillac Manufacturing<br>201 Haynes Street<br>Cadillac, MI 49601 |
| (g)Material No. 09-037 | Sealants (Ref. 20-31-00) |
| (h)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |

| Referenced Procedures | |
|---|---|
| - 11-35-25, P. Block 1 | FWD Cargo Compartment |
| - 11-36-35, P. Block 1 | AFT and Bulk Cargo Compartment |
| - 25-54-10, P. Block 201 | FWD Cargo Compartment Linings |
| - 25-55-10, P. Block 201 | AFT Cargo Compartment Linings |

(2)Procedure

(a)Job Set-Up

1 Remove ceiling panels (Ref. 25-54-10, P. Block 201 and 25-55-10, P. Block 201).

(b)Replacement

1 Remove all anchor nuts, clip nuts and other components from the existing ceiling panel.

CAUTION : MAKE CERTAIN THAT THE NEW PANEL THICKNESS IS EQUAL WITH THE OLD PANEL THICKNESS.

2 Cut new honeycomb section sheet to approx. size, using existing panel as template.

3 Smooth edges to finished size, and deburr using emery cloth, grade 80-120.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

4 Clean contact surfaces of panel, using cleaning agent (Mat. No. 11-010) and clean, lint-free cloth.
5 Using existing panel as template, transfer all holes and drill.

NOTE : Drill holes with the correct diameter.

6 Smooth edges of holes and deburr.
7 Seal all edges with filler (Mat. No. 09-037) and allow filler to harden.

NOTE : Route recess for edge fill to a minimum depth of 6 mm (0.24 in.).

8 Install all anchor nuts, clip nuts and other components.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

9 Clean contact surfaces of panel, using cleaning agent (Mat. No. 11-010) and clean lint-free cloth.
10 If necessary install new placards (Ref. 11-35-25, P. Block 1 and 11-36-35, P. Block 1).

(c)Close-Up
1 Install ceiling panels (Ref. 25-54-10, P. Block 201 and 25-55-10, P. Block 201).
2 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

B. Replacement of Cargo Compartment Partition Walls without Decompression Panels

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Sharp Knife |
| (d) | Small Hacksaw |
| (e) | Drilling Machine |
| (f) | Honeycomb Section Sheet, Partition Walls<br>AAR Cadillac Manufacturing<br>201 Haynes Street<br>Cadillac, MI 49601 |
| (g)Material No. 09-037 | Sealants (Ref. 20-31-00) |
| (h)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (j)Material No. 19-003 | Miscellaneous (Ref. 20-31-00) |

Referenced Procedures

- 11-35-25, P. Block 1 FWD Cargo Compartment
- 11-36-35, P. Block 1 AFT and Bulk Cargo Compartment
- 25-54-10, P. Block 201 FWD Cargo Compartment Linings
- 25-55-10, P. Block 201 AFT Cargo Compartment Linings

(2)Procedure

(a)Job Set-Up

1 Remove partition walls (Ref. 25-54-10, P. Block 201 and 25-55-10, P. Block 201).

(b)Replacement

1 Remove all anchor nuts, clip nuts and other components from the existing partition wall.

CAUTION : MAKE CERTAIN THAT THE NEW WALL THICKNESS IS EQUAL WITH THE OLD WALL THICKNESS.

2 Cut new honeycomb section sheet to approx. size, using existing panel as template.

3 Smooth edges to finished size, and deburr using emery cloth, grade 80-120.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

4 Clean contact surfaces of wall, using cleaning agent (Mat. No. 11-010) and clean, lint-free cloth MISCELLANEOUS (Material No. 19-003).

5 Using existing panel as template, transfer all holes and drill.

NOTE : Drill holes with the correct diameter.

6 Smooth edges of holes and deburr.

7 Seal all edges with filler, SEALANTS (Mat. No. 09-037) and allow filler to harden.

NOTE : Route recess for edge fill to a minimum depth of 6 mm (0.24 in.).

8 Install all anchor nuts, clip nuts and other components.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

9 Clean contact surface of panel, using CLEANING AGENTS (Material No. 11-010) and clean lint-free cloth, MISCELLANEOUS (Material No. 19-003).

10 If necessary install new placards (Ref. 11-35-25, P. Block 1 and 11-36-35, P. Block 1).

(c)Close-Up

1 Install partition walls (Ref. 25-54-10, P. Block 201 and 25-55-10, P. Block 201).

2 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

C. Replacement of Cargo Compartment Partition Walls with Decompression Panels

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Sharp Knife |
| (d) | Small Hacksaw |
| (e) | Drilling Machine |
| (f) | Honeycomb Section Sheet, Partition Walls |
| (g) | Profile, H-Shaped, Fwd Cargo Compartment<br>AAR Cadillac Manufacturing<br>201 Haynes Street<br>Cadillac, MI 49601 |
| (h)Material No. 08-017 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (i)Material No. 09-037 | Sealants (Ref. 20-31-00) |
| (j)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (j)Material No. 19-003 | Miscellaneous (Ref. 20-31-00) |
| Referenced Procedures | |
| - 11-35-25, P. Block 1 | FWD Cargo Compartment |
| - 11-36-35, P. Block 1 | AFT and Bulk Cargo Compartment |
| - 25-54-10, P. Block 201 | FWD Cargo Compartment Linings |
| - 25-55-10, P. Block 201 | AFT Cargo Compartment Linings |
| - 25-66-20, P. Block 201 | FWD Cargo Compartment-Decompression Panels |
| - 25-66-30, P. Block 201 | AFT and Bulk Cargo Compartment Decompression Panel |

(2)Procedure

(a)Job Set-Up

1 Remove partition walls (Ref. 25-54-10, P. Block 201 and 25-55-10, P. Block 201).

2 Remove decompression panels (Ref. 25-66-20, P. Block 201 and 25-66-30, P. Block 201).

(b)Replacement (Ref. Fig. 805)

1 Remove all anchor nuts, clip nuts and other components from the existing partition wall.

CAUTION : MAKE CERTAIN THAT THE NEW WALL THICKNESS IS EQUAL WITH THE OLD WALL THICKNESS.

2 Cut new honeycomb section sheet to approx. size, using existing panel as template.

3 Smooth edges to finished size, and deburr using emery cloth, grade 80-120.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

4 Clean contact surfaces of wall, using CLEANING AGENTS (Mat. No. 11-010) and clean, lint-free cloth, MISCELLANEOUS (Material No. 19-003).
5 Using existing panel as template, transfer all holes and drill.

NOTE : Drill holes with the correct diameter.

6 Smooth edges of holes and deburr.
7 Seal all edges with filler, SEALANTS (Mat. No. 09-037) and allow filler to harden.

NOTE : Route recess for edge fill to a minimum depth of 6 mm (0.24 in.).

8 Install all anchor nuts, clip nuts and other components.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

9 Clean contact surface of panel, using CLEANING AGENTS (Mat. No. 11-010) and clean lint-free cloth MISCELLANEOUS (Material No. 19-003).

CAUTION : MAKE CERTAIN THAT THE NEW H-PROFILE MEASURES ARE SUITABLE WITH THE OLD DECOMPRESSION PANEL.

10 Cut new h-profile to finished lengths.
11 Cut corner joints at ends of h-profile to 45°.
12 Smooth and deburr all cut edges of h-profile using emery cloth, grade 80-120.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

13 Clean contact surfaces of panel, and inside of channel of the h-profile using CLEANING AGENTS (Mat. No. 11-010) and clean, lint-free cloth, MISCELLANOUS (Material No. 19-003).
14 Apply adhesive (Mat. No. 08-017) to inside of channel of the h-profile and the mating surfaces of the panel.

NOTE : Apply adhesive generously to the edges of the panel where honeycomb is exposed.

15 Firmly press h-profile into position on the panel, check alignment and joints, clamp if necessary.
16 Remove excess adhesive and allow repair to harden.
17 Trim flange of h-profile to finished width.
18 If necessary install new placards (Ref. 11-35-25, P. Block 1 and 11-36-35, P. Block 1).

(c)Close-Up
1 Install decompression panels (Ref. 25-66-20, P. Block 201 and 25-66-30, P. Block 201).
2 Install partition walls (Ref. 25-54-10, P. Block 201 and 25-55-10,

P. Block 201).

3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

D. Replacement of Cargo Compartment Sidewall Linings with Decompression Panels

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Clean, Lint-Free Cloth |
| (c) | Sharp Knife |
| (d) | Small Hacksaw |
| (e) | Drilling Machine |
| (f) | Honeycomb Section Sheet, Fwd Cargo Compartment |
| (g) | Honeycomb Section Sheet, Aft Cargo Compartment |
| (h) | Honeycomb Section Sheet, Bulk Cargo Compartment |
| (i) | Profile, H-Shaped, Fwd Cargo Compartment |
| (j) | Profile, H-Shaped, Aft Cargo Compartment |
| | AAR Cadillac Manufacturing<br>201 Haynes Street<br>Cadillac, MI 49601 |
| (k)Material No. 08-017 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (l)Material No. 09-037 | Sealants (Ref. 20-31-00) |
| (m)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (j)Material No. 19-003 | Miscellaneous (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-35-25, P. Block 1 | FWD Cargo Compartment |
| - 11-36-35, P. Block 1 | AFT and Bulk Cargo Compartment |
| - 25-54-10, P. Block 201 | FWD Cargo Compartment Linings |
| - 25-55-10, P. Block 201 | AFT Cargo Compartment Linings |
| - 25-66-20, P. Block 201 | FWD Cargo Compartment-Decompression Panels |
| - 25-66-30, P. Block 201 | AFT and Bulk Cargo Compartment Decompression Panels |

(2)Procedure

(a)Job Set-Up

1 Remove sidewall linings (Ref. 25-54-10, P. Block 201 and 25-55-10, P. Block 201).

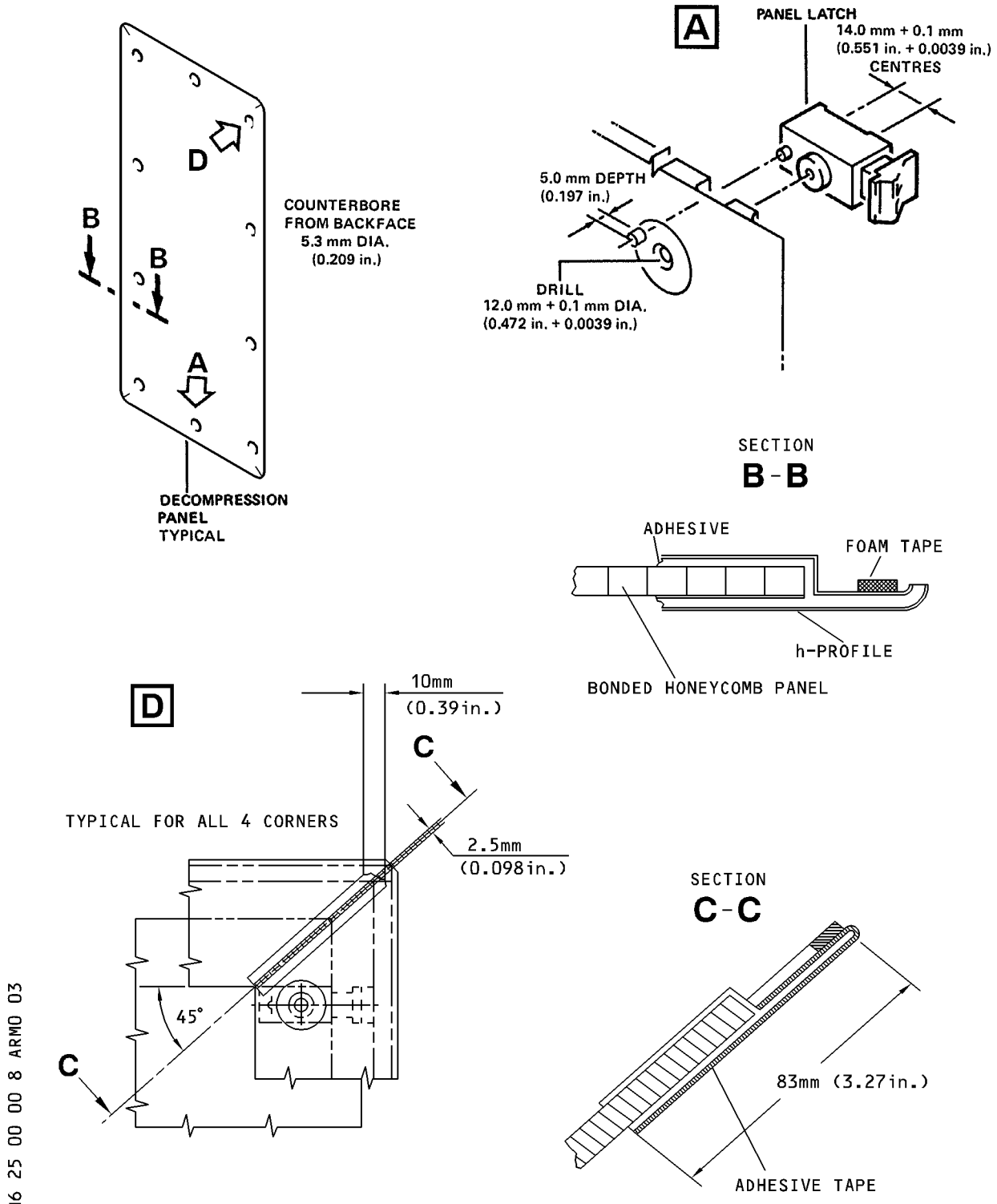
2 Remove decompression panels (Ref. 25-66-20, P. Block 201 and 25-66-30, P. Block 201).

(b)Replacement (Ref. Fig. 805)

1 Remove all anchor nuts, clip nuts and other components from the existing sidewall linings.

CAUTION : MAKE SURE THAT THE NEW LINING THICKNESS IS EQUAL WITH THE OLD LINING THICKNESS.

2 Cut new honeycomb section sheet to approx. size, using existing panel as template.

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Complete Replacement of
Decompression Panel using h-Profile
Figure 805

R

3 Smooth edges to finished size, and deburr using emery cloth, grade 80-120.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

4 Clean contact surfaces of linings, using CLEANING AGENTS (Material No. 11-010) and clean, lint-free cloth, MISCELLANEOUS (Material No. 19-003).
5 Using existing lining as template, transfer all holes and drill.

NOTE : Drill holes with the correct diameter.

6 Smooth edges of holes and deburr.
7 Seal all edges with filler, SEALANTS (Material No. 09-037), and allow filler to harden.

NOTE : Route recess for edge fill to a minimum depth of 6 mm (0.24 in.).

8 Install all anchor nuts, clip nuts and other components.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

9 Clean contact surface of lining, using CLEANING AGENTS (Material No. 11-010) and clean lint-free cloth, MISCELLANEOUS (Material No. 19-003).

CAUTION : MAKE SURE THAT THE NEW H-PROFILE MEASURES ARE SUITABLE FOR THE OLD DECOMPRESSION PANELS.

10 Cut new h-profile to finished lengths.
11 Cut corner joints at ends of h-profile to 45°.
12 Smooth and deburr all cut edges of h-profile using emery cloth, grade 80-120.

WARNING : CLEANING AGENT (MAT. NO. 11-010) IS DANGEROUS.

13 Clean contact surfaces of linings, and inside of channel of the h-profile using CLEANING AGENTS (Material No. 11-010) and clean, lint-free cloth, MISCELLANEOUS (Material No. 19-003).
14 Apply adhesive, BONDING AND ADHESIVE COMPOUNDS (Material No. 08-017), to inside of channel of the h-profile and the mating surface of the panel.

NOTE : Apply adhesive generously to the edges of the panel where honeycomb is exposed.

15 Firmly press h-profile into position on the panel, check alignment and joints, clamp if necessary.
16 Remove excess adhesive and allow repair to harden.
17 Trim flange of h-profile to finished width.

18 If necessary install new placards (Ref. 11-35-25, P. Block 1 and 11-36-35, P. Block 201).

(c)Close-Up

1 Install decompression panels (Ref. 25-66-20, P. Block 201 and 25-66-30, P. Block 201).

2 Install sidewall panels (Ref. 25-54-10, P. Block 201, 25-55-10, P. Block 201).

3 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

11.Repair of Cargo Compartment Linings

A. General Information for the Repair of the Cargo Compartment Linings

This task gives general information for cargo-compartment lining repairs and guidelines to select the applicable method, for the damage type and its dimensions.

It is applicable for the subsequent panels:

- Ceiling
- Decompression
- Fixed Partition at FR20, FR38.2, FR54 and FR70
- Side wall.

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Access Platform |
| (b) | Warning Notice |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings |
| - 24-41-00, P. Block 301 | External Power |
| - 25-54-10, P. Block 201 | FWD Cargo Compartment Linings |
| - 25-55-10, P. Block 201 | AFT Cargo Compartment Linings |
| - 25-56-11, P. Block 201 | BULK Cargo Compartment Linings |
| - 25-66-20, P. Block 201 | FWD Cargo-Compartment Decompression Panels |
| - 25-66-30, P. Block 201 | AFT and BULK Cargo-Compartment Decompression Panels |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 53-10-40, P. Block 601 | Support Struts |
| - 53-10-43, P. Block 401 | Support Struts, Section 13 to 14 |
| - 53-10-47, P. Block 401 | Fuselage Aft and Tail Sections Support Struts |
| - 53-10-53, P. Block 401 | Avionics Compartment Fixed Partition |
| - 53-10-55, P. Block 401 | FWD Cargo-Compartment Fixed Partition |
| - 53-10-57, P. Block 401 | AFT Cargo-Compartment Fixed Partition |
| - 53-10-59, P. Block 401 | BULK Cargo-Compartment Fixed Partition |

(2) Job Set-Up

R (a)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

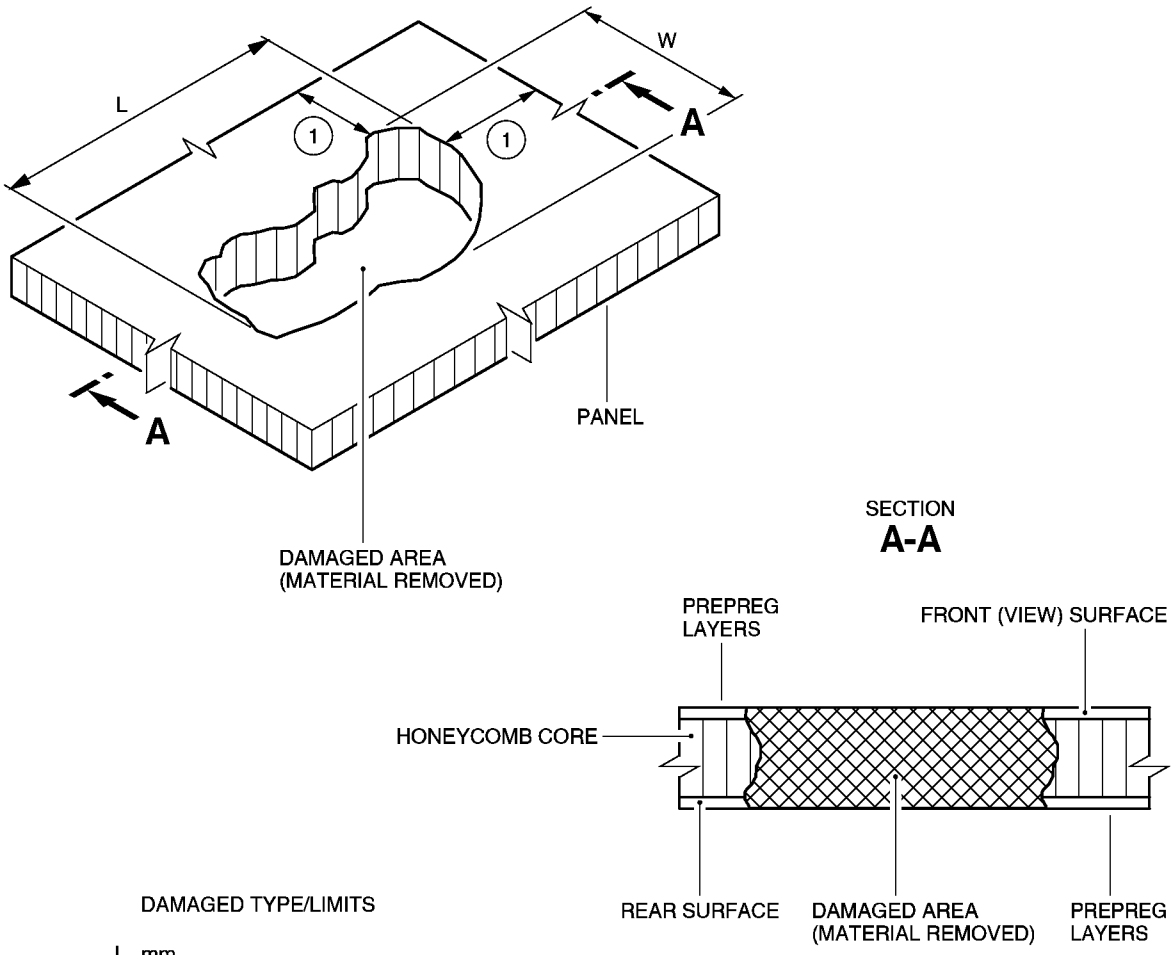
(b)Put the applicable access platform in position below the related cargo compartment door.
(c)Put a warning notice in position (at the cargo compartment door) prohibiting the operation of the cargo loading system.
(d)Open the related cargo compartment door (Ref. 52-30-00, P. Block 1).
(e)Install the safety lock on the actuator of the related cargo compartment door (Ref. P. Block 52-30-00, P. Block 301).

(3)General Procedure

NOTE : Dents (with crushed honeycomb and delamination, but without cracks) in the skin of the lining panel are not considered as a damage. But, if these dents are located in the panel edge filler area, they should then be considered as a damage to the edge.

(a)Identify the damage
1 Damage through the lining (Ref. Fig. 806).
2 Damage to the edge(s) of the lining (Ref. Fig. 807).
3 Damage not through the lining (Ref. Fig. 808).
(b)Measure the area of damage
L: Length of the damage (biggest dimension)
W: Width of the damage
D: Diameter of the damage.
R (c)Choose the correct repair method (Ref. Fig. 809)
1 Do the repair in a maximum of 100 flight hours if the damage to the surface has:
- a maximum diameter "D" of 30 mm (1.20 in.)
- or a maximum length "L" of 200 mm (7.90 in.)
- and a maximum width "W" of 25 mm (0.98 in.).
2 Do the repair immediately if:
- the damage goes through the lining(s)
- the edge(s) has(have) damage
- the damage dimensions are more than the limits for repair up to a maximum of 100 flight hours.
3 If the damage is more than the given limits, replace the applicable lining(s), refer to steps 10 A. thru 10 D.
4 Repair of dents (without crack) in the lining panel visible skin, is not required, except on the skin area overlapping the edge filler. If this specific area is damaged, it shall be considered as a damage to the edge.
5 The total damaged area of a lining panel must not exceed 25% of its surface. If the total damaged area exceeds 25%, you must replace the panel.
(d)Removal of the Damaged Lining(s)
1 If necessary, remove the damaged lining(s) for the applicable repair as follows:
- for the FWD cargo compartment lining(s) (Ref. 25-54-10, P. Block 201)
- for the avionic compartment fixed partition (Ref. 53-10-53, P. Block 401)
- for the FWD cargo compartment fixed partition (Ref. 53-10-55, P. Block 401)

EXAMPLE




NOTE:

(1) THE MINIMUM DISTANCE FROM A DAMAGE TO AN EDGE IS 50mm (1.97 in.)

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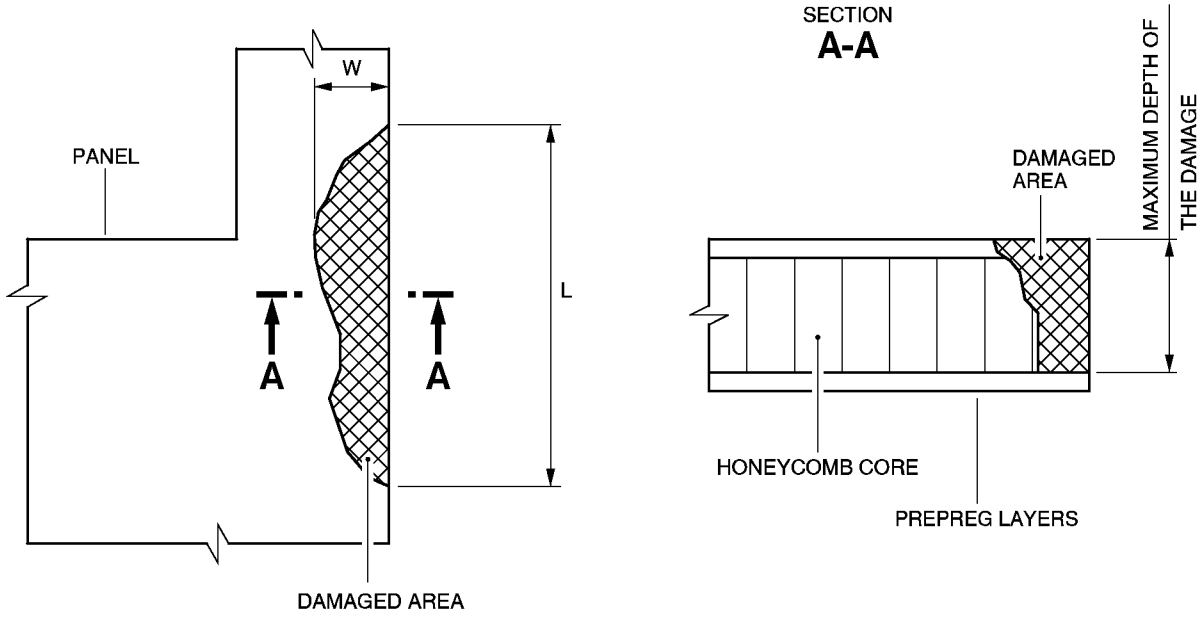
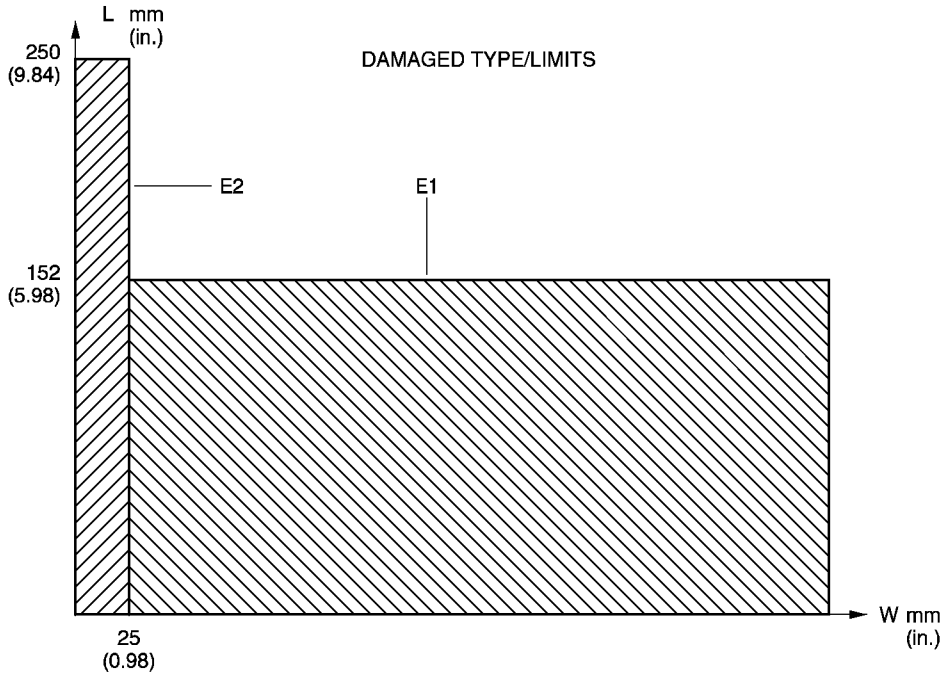
Honeycomb Linings - Damage Through
Figure 806

R

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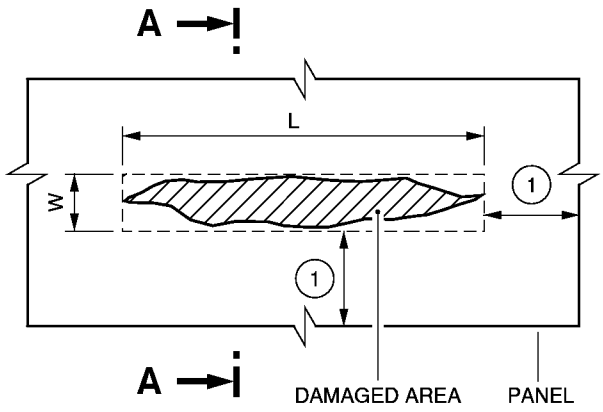
Honeycomb Linings - Edge Damage
Figure 807

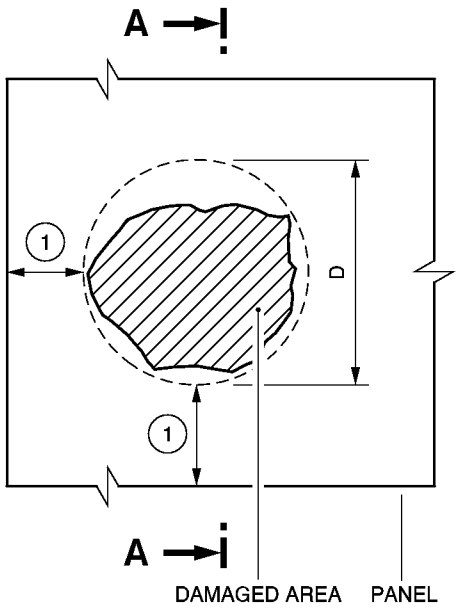
R

EXAMPLE

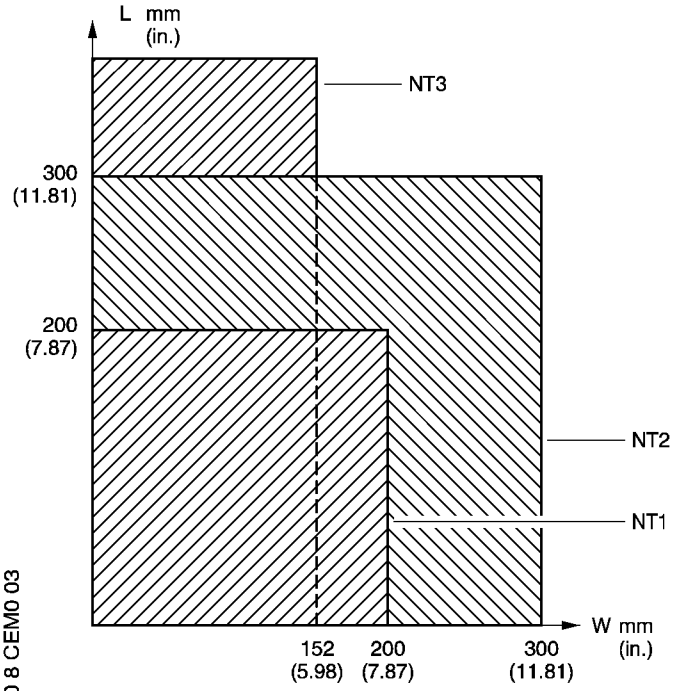
LONGITUDINAL SHAPE



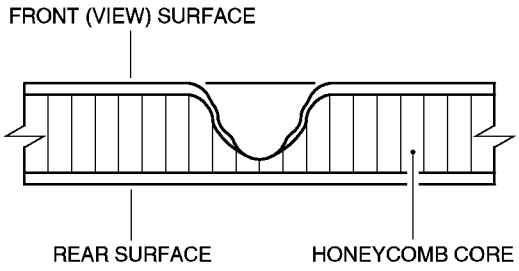

CIRCULAR SHAPE




DAMAGED TYPE/LIMITS




SECTION
**A-A**

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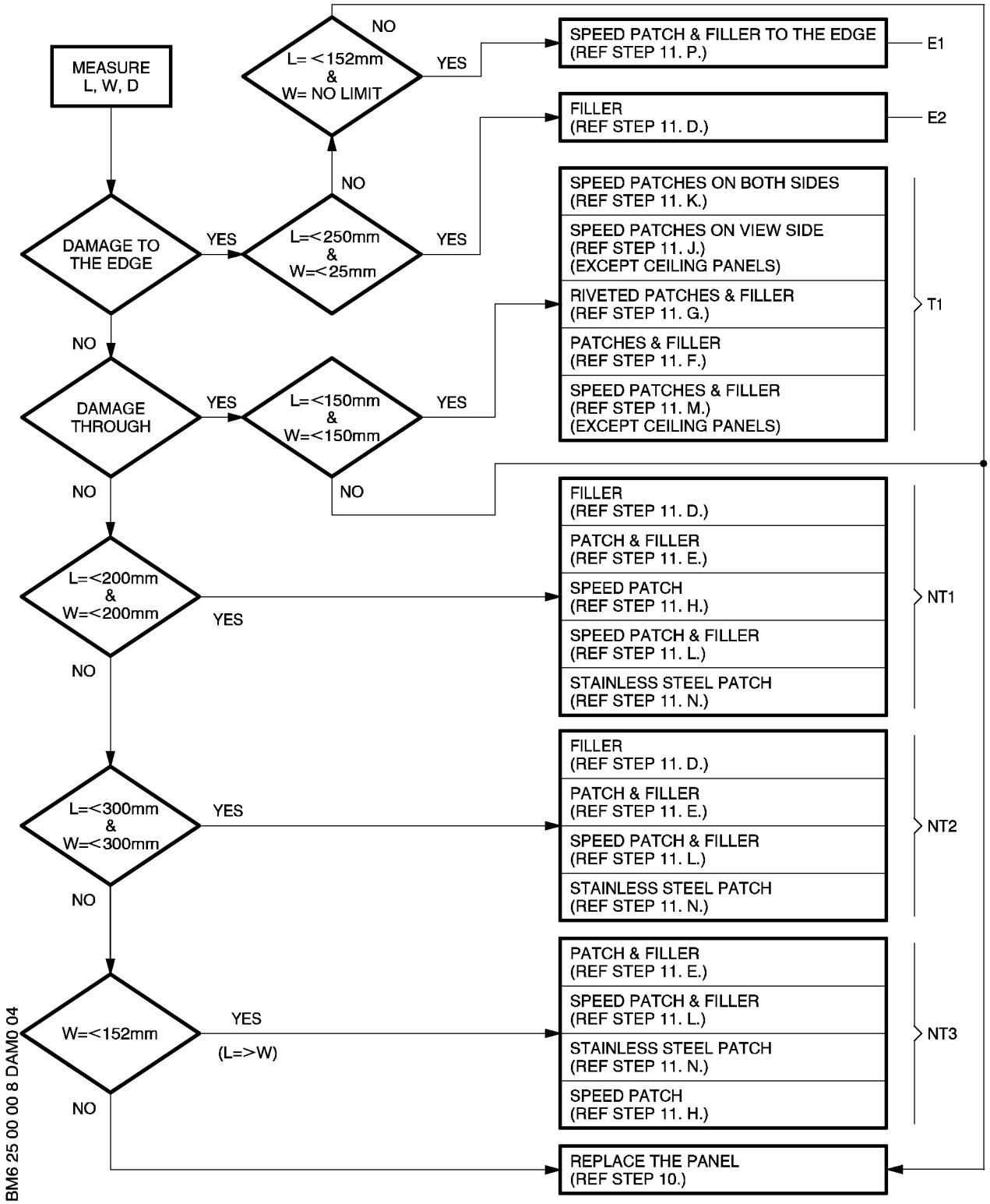
NOTE:

(1) THE MINIMUM DISTANCE FROM A DAMAGE TO AN EDGE IS 50mm (1.97 in.)

Honeycomb Linings - Damage Not Through
Figure 808

R




General Identification Chart
Figure 809

R

- for the FWD cargo-compartment decompression panel(s) (Ref. 25-66-20, P. Block 201)
- for the AFT cargo compartment lining(s) (Ref. 25-55-10, P. Block 201)
- for the AFT cargo compartment fixed partition (Ref. 53-10-57, P. Block 401)
- for the AFT cargo-compartment decompression panel(s) (Ref. 25-66-30, P. Block 201)
- for the BULK cargo compartment lining(s) (Ref. 25-56-11, P. Block 201)
- for the BULK cargo compartment fixed partition (Ref. 53-10-57, P. Block 401)
- for the BULK cargo-compartment decompression panel(s) (Ref. 25-66-30, P. Block 201).

R (e)Do a Visual Inspection of the Component Interface and/or the adjacent area

1 In the FWD cargo compartment:

a Examine the support struts for damage (in the area behind the removed linings) (Ref. 53-10-40, P. Block 601).

b Make sure that all the equipment components have no damage and are in the correct condition.

c If the support struts have damage that is more than the given limits, replace them (Ref. 53-10-43, P. Block 401).

2 In the AFT cargo compartment

a Examine the support struts for damage (in the area behind the removed linings) (Ref. 53-10-40, P. Block 601).

b Make sure that all the equipment components have no damage and are in the correct condition.

c If the support struts have damage that is more than the given limits, replace them (Ref. 53-10-47, P. Block 401).

3 In the BULK cargo compartment:

a Examine the support struts for damage (in the area behind the removed linings) (Ref. 53-10-40, P. Block 601).

b Make sure that all the equipment components have no damage and are in the correct condition.

c If the support struts have damage that is more than the given limits, replace them (Ref. 53-10-47, P. Block 401).

R (f)Repair of the Damaged Lining(s)

1 Do the applicable repair of the damaged lining(s) from the following list:

- Step 11.B.;Repair to the Flanges of the Cargo-Compartment Decompression Panels
- Step 11.C.;Repair of Cargo-Compartment Decompression Panels by Hand Lamination
- Step 11.D.;Filler Repair Method (Damage Not Through)
  - All Cargo Compartment Linings with Honeycomb Core
- Step 11.E.;Patch and Filler Repair Method (Damage Not Through)
  - All Cargo Compartment Linings with Honeycomb Core
- R Step 11.F.;Patches and Filler Repair Method (Damage Through)
  - R All Cargo Compartment Linings with Honeycomb Core
- R Step 11.G.;Patches, Filler and Rivets Repair Method (Damage

Through) - All Cargo Compartment Linings with Honeycomb Core
R - Step 11.H.;Speed Patch Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core
R - Step 11.J.;Speed Patches (on View Side) Repair Method (Damage Through) - All Cargo Compartment Linings with Honeycomb Core
R - Step 11.K.;Speed Patches (on Both Sides) Repair Method (Damage Through) - All Cargo Compartment Linings with Honeycomb Core
R - Step 11.L.;Speed Patches and Filler Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core
R - Step 11.M.;Speed Patches and Filler Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core, Except Ceiling Panels
R - Step 11.N.;Stainless Steel Patch Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core.
R - Step 11.P.;Speed Patch and Filler to the Edge Repair Method (Damage Not Through from the Edge) - All Cargo Compartment Linings with Honeycomb Core

R (g)Installation of the Repaired Lining(s)

1 If removed to do the repair procedure, install the repaired lining(s) as follows:
- for the FWD cargo compartment lining(s)s (Ref. 25-54-10, P. Block 201)
- for the avionic compartment fixed partition (Ref. 53-10-53, P. Block 401)
- for the FWD cargo compartment fixed partition (Ref. 53-10-55, P. Block 401)
- for the FWD cargo-compartment decompression panel(s) (Ref. 25-66-20, P. Block 201)
- for the AFT cargo compartment lining(s) (Ref. 25-55-10, P. Block 201)
- for the AFT cargo compartment fixed partition (Ref. 53-10-57, P. Block 401)
- for the AFT cargo-compartment decompression panel(s) (Ref. 25-66-30, P. Block 201)
- for the BULK cargo compartment lining(s) (Ref. 25-56-11, P. Block 201)
- for the BULK cargo compartment fixed partition (Ref. 53-10-59, P. Block 401)
- for the BULK cargo-compartment decompression panel(s) (Ref. 25-66-30, P. Block 201).

R (h)If necessary, install new placards on the repaired lining(s) (Ref. 11-00-00, P. Block 1).

R (j)Close-Up

1 Close Access

a Make sure that the work area is clean and clear of tools and other items.

b Remove the safety lock from the actuator of the related cargo compartment door (Ref. 52-30-00, P. Block 301).

c Close the related cargo compartment door (Ref. 52-30-00,

P. Block 1).
d Remove the warning notice.
e Remove the access platform.
2 De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

B. Repair to the Flanges of the Cargo Compartment Decompression Panels

(1) Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Prefabricated Molding Block |
| (c) | Waxed Paper |
| (d) | Access Platform 2 m (6 ft) |
| (e) | Plate - Pressure |
| (f) | Warning Notice |
| (g) Material No. 05-007 | Special Materials (Ref. 20-31-00) |
| (h) Material No. 08-001 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (j) Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (k) Material No. 08-060 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (l) Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (m) Material No. 19-003 | Miscellaneous (Ref. 20-31-00) |

| Referenced Procedure | |
|---|---|
| -20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure

(a)Job Set-Up

1 Prepare the Decompression Panels for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings, Partitions and Decompression Panels.

(b)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL.
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS :
THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

1 Remove the sealing tape from the back of the flange that is

damaged.
2 Remove the unwanted material from the flange that is damaged.
3 Chamfer the edges of the damage with the emery cloth, grade 80 - 120.
4 Clean the Damaged Area

WARNING : CLEANING AGENT (MATERIAL NO. 11-010) IS DANGEROUS.

a Clean the damaged area with a lint-free cloth made moist with the isopropyl alcohol CLEANING AGENTS (Material No. 11-010).
b Dry the area with a clean, dry lint-free cloth MISCELLANEOUS (Material No. 19-003).
5 Prepare the Repair

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Cut three layers of the glasscloth SPECIAL MATERIALS (Mat. No. 05-007) to the correct size for the repair area.
b Put the prefabricated molding block in position, to support the repair.
6 Prepare the filler

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Prepare the adhesive honeycomb filler BONDING AND ADHESIVE COMPOUNDS (Material No. 08-001).

NOTE : Refer to the manufacturer's instructions for the correct procedure to prepare the materials.

7 Put a sheet of waxed paper on the molding block.
8 Install the repair as follows:

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Put the first layer of the glasscloth on the repair area.
b Apply a layer of the adhesive honeycomb filler to the first layer of the glasscloth.
c Put the second layer of the glasscloth on to the first layer of the glasscloth.
d Apply a layer of the adhesive honeycomb filler to the second layer of the glasscloth.
e Put the third layer of the glasscloth on to the second layer of the glasscloth.
f Apply a layer of the adhesive honeycomb filler to the third layer of the glasscloth.

g Put a sheet of waxed paper over the repair area.
h Put the plate - pressure on the sheet of waxed paper over the repair area.

NOTE : If available, you can use vacuum equipment 22 in.Hg (745.0058 hPa) instead of the plate - pressure.

j Let the layers of adhesive honeycomb-filler cure.

NOTE : Refer to the manufacturer's instructions for the curing time of the adhesive honeycomb filler.

9 Remove the plate - pressure (or if used, the vacuum equipment), the waxed paper and the prefabricated molding block.

10 Make sure that the thickness of the repair is a maximum of 0.8 mm (0.0314 in.).
11 If necessary, adjust the repair to the correct thickness with the emery cloth, grade 80 - 120.
12 If necessary, cut the repair (Ref. Detail A) to give the correct profile of the original decompression panel.
13 Apply pressure sensitive tape **BONDING AND ADHESIVE COMPOUNDS** (Material No. 08-060) to the rear of the decompression panel at the repair area.
14 Apply sealing tape **BONDING AND ADHESIVE COMPOUNDS** (Material No. 08-005) to the layer of pressure sensitive tape.

(c)Close-Up
1 Make sure that the work area is clean and clear of tools and other items.
2 Install the Repaired Decompression Panels and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Linings, Partitions and Decompression Panels.

C. Repair of Cargo-Compartment Decompression Panels by Hand Lamination
(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Sharp Knife, or Scissors |
| (b) | Jagged Edged Scissors |
| (c) | Emery Cloth, Grade 80 - 120 |
| (d) | Waxed Paper |
| (e) | Plate-Pressure |
| (f) | Molding Block (Prefabricated) |
| (g)Material No. 05-007 | Special Materials (Ref. 20-31-00, P. Block 1) |
| (h)Material No. 07-012 | Lacquers (Ref. 20-31-00, P. Block 1) |
| (j)Material No. 08-001C | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (k)Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00, |

| ITEM | DESIGNATION |
|---|---|
| | P. Block 1) |
| (l)Material No. 08-060 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (m)Material No. 11-004 | Cleaning Agents (Ref. 20-31-00, P. Block 1 |
| (n)Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1 |
| Referenced Procedures | |
| - 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 810)

(a)Job Set-Up

1 Prepare the Decompression Panels for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings, Partitions and Decompression Panels.

(b)Do the Repair

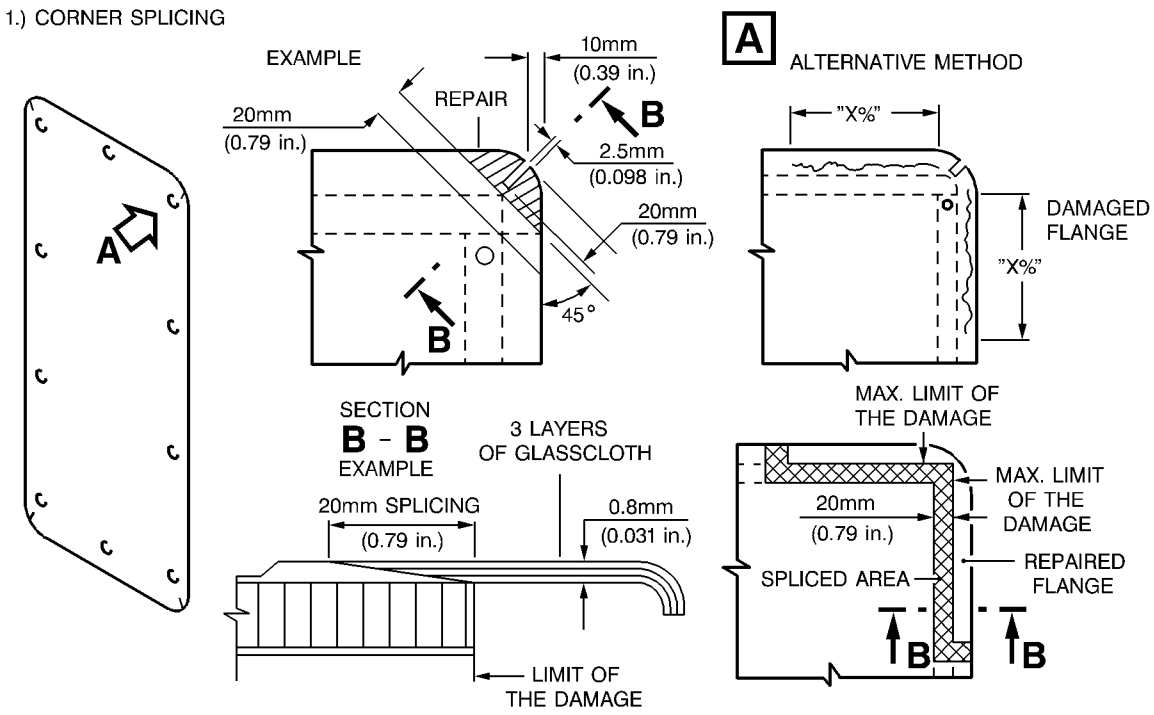
WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
- DO NOT BREATHE THE FUMES FROM THE MATERIAL.
- DO NOT SMOKE WHEN YOU USE THE MATERIAL.
- DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS:
THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

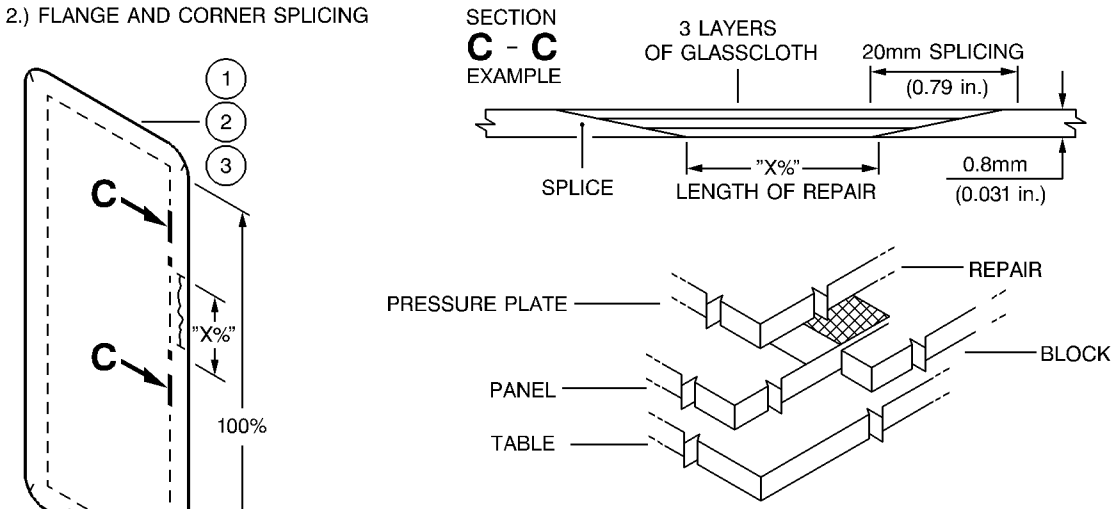
1 Remove the plastic foam tape (Mat. No. 08-005) from the flange, at the damaged area.
2 Remove the unwanted material from the flange that is damaged.
3 Chamfer the edges of the damage with the emery cloth, grade 80 - 120.
4 Clean the Damaged Area

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth MISCELLANEOUS (Material No. 19-003), made moist with the solvent CLEANING AGENTS (Material No. 11-004).
b Dry the area with a clean, dry lint-free cloth MISCELLANEOUS (Material No. 19-003).

5 Prepare the Repair




NOTE:

1. ALLOWED REPAIR AREA: UP TO 4 CORNERS AND ONE FLANGE WHEN "X%" DOES NOT EXCEED 25% OF FLANGE LENGTH
2. ALLOWED REPAIR AREA: UP TO 4 CORNERS AND TWO FLANGES WHEN "X%" DOES NOT EXCEED 20% OF FLANGE LENGTH
3. ALLOWED REPAIR AREA: UP TO 4 CORNERS AND FOUR FLANGES WHEN "X%" DOES NOT EXCEED 15% OF FLANGE LENGTH

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Repair Method by Hand Lamination
Figure 810

R

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Cut three layers of the glasscloth SPECIAL MATERIALS (Material No. 05-007) to the correct size for the repair area.
b Put the prefabricated molding block in position, to support the repair.

6 Prepare the Lamination Resin

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Prepare the lamination resin BONDING AND ADHESIVE COMPOUNDS (Material No. 08-001C).

NOTE : Refer to the manufacturer's instructions for the correct procedure to prepare the materials.

7 Put a sheet of waxed paper on the prefabricated molding block.
8 Install the repair as follows:

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Put the first layer of the glasscloth on the repair area.
b Apply a layer of the lamination resin to the first layer of the glasscloth.
c Put the second layer of the glasscloth on to the first layer of the glasscloth.
d Apply a layer of the lamination resin to the second layer of the glasscloth.
e Put the third layer of the glasscloth on to the second layer of the glasscloth.
f Apply a layer of the lamination resin to the third layer of the glasscloth.
g Put a sheet of waxed paper over the repair area.
h Put the plate - pressure on the sheet of waxed paper over the repair area.
j Remove the unwanted lamination resin.
k Let the layers of lamination resin cure.

NOTE : Refer to the manufacturer's instructions for the curing time of the lamination resin.

9 Make sure that the repair has a maximum thickness of 0.8 mm (0.0314 in.) more than the original panel thickness.
10 If necessary, adjust the repair to the correct thickness with the

emery cloth, grade 80 - 120.

11 If necessary, cut the repair (Ref. Detail A) to give the correct profile of the original decompression panel.

12 Clean the Damaged Area

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth **MISCELLANEOUS** (Material No. 19-003) made moist with the solvent **CLEANING AGENTS** (Material No. 11-004).

b Dry the area with a clean, dry lint-free cloth **MISCELLANEOUS** (Material No. 19-003).

13 Mark out, produce corner slot and bevel, as necessary.

14 Restore the surface finish

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Restore the surface finish with a layer of laquer **LAQUERS** (Material No. 07-012).

15 Remove the protective film from the rear of the adhesive tape.

16 Install the adhesive tape **BONDING AND ADHESIVE COMPOUNDS** (Material No. 08-060) to the corner of the panel.

17 Remove the protective film from the rear of the plastic foam tape.

18 Install the plastic foam tape **BONDING AND ADHESIVE COMPOUNDS** (Material No. 08-005), into position along the inner surface and flush with the outer edge.

(c)Close-Up

1 Make sure that the work area is clean and clear of tools and other items.

2 Remove the plate - pressure, the waxed paper and the prefabricated molding block.

3 Install the Repaired Decompression Panels and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Linings, Partitions and Decompression Panels.

D. Filler Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80-120 |
| (b)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (c)Material No. 08-115 | Bonding and Adhesive Components (Ref. 20-31-00, P. Block 1) or |
| (d)Material No. 08-115A | Bonding and Adhesive Components (Ref. 20-31-00, |

| ITEM | DESIGNATION |
|---|---|
| | P. Block 1)<br>or |
| (e)Material No. 08-115B | Bonding and Adhesive Components (Ref. 20-31-00, P. Block 1)<br>or |
| (f)Material No. 08-115C | Bonding and Adhesive Components (Ref. 20-31-00, P. Block 1) |
| (g)Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1) |
| Referenced Procedure<br>- 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 811)

(a)Job Set-Up

1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.

(b)Do the Repair

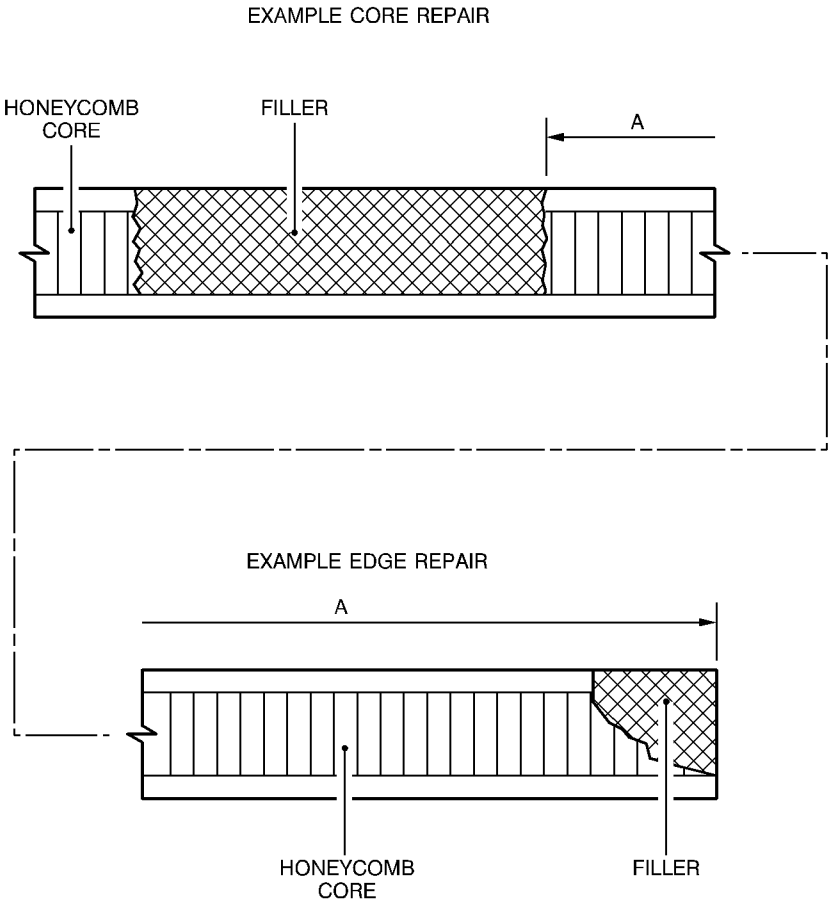
WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL.
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS: THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

NOTE : If the length of an area of damage is more than 25 mm (0.98 in.):
- the minimum distance to another area of damage or another repair in the same panel is 50 mm (1.97 in.)
- If this distance is less than 50 mm (1.97 in.), both areas should then be considered as a single damage area.

1 Remove the damaged material from the lining(s).
2 Deburr the edges with the emery cloth, grade 80 - 120.
3 Clean the Damaged Area

WARNING : CLEANING AGENT (MATERIAL NO. 11-010) IS DANGEROUS.

a Clean the damaged area with a lint-free cloth MISCELLANEOUS (Material No. 19-003) made moist with the CLEANING

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NOTE:
A = 50mm (1.97 in.) MIN

Filler Repair Method (Damage Not Through)
Figure 811

AGENTS (Material 11-010).
b Dry the damaged area with a clean, dry lint-free cloth.

4 Prepare and Apply the Filler

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Mix and apply the filler
- Bonding and Adhesive Compounds (Material No. 08-115)
or
- Bonding and Adhesive Compounds (Material No. 08-115A)
or
- Bonding and Adhesive Compounds (Material No. 08-115B)
or
- Bonding and Adhesive Compounds (Material No. 08-115C)
to the prepared damage area.

NOTE: Refer to the manufacturer's instructions.

b Let the filler cure.

NOTE : Refer to the manufacturer's instructions for the filler curing times.

5 Make the repaired area smooth with the emery cloth, grade 80 - 120.

(c)Close-Up

1 Make sure that the work area is clean and clear of tools and other items.

2 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

E. Patch and Filler Repair Method (Damage Not Through)
- All Cargo Compartment Linings with Honeycomb Core

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b)Material No. 08-075 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (c)Material No. 08-076 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (d)Material No. 08-077 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (e)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (f)Material No. 08-115 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (g)Material No. 08-115A | Bonding and Adhesive Compounds (Ref. 20-31-00, |

| ITEM | DESIGNATION |
|---|---|
| | P. Block 1) |
| | or |
| (h)Material No. 08-115B | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| | or |
| (j)Material No. 08-115C | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (k)Material No. 19-003 | Miscellaneous (Ref. 20-31-00) |
| Referenced Procedure | |
| - 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

R (2)Procedure (Ref. Fig. 812)

(a)Job Set-Up

1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Comparment Linings.

R (b)If the length of a damaged area is more than 25 mm (0.98 in.):
R - the minimum distance to another damaged area or repaired area in the same panel is 50 mm (1.97 in.)
R - if the distance to another damaged area is less than 50 mm (1.97 in.), both damaged areas should be considered as a single damage.

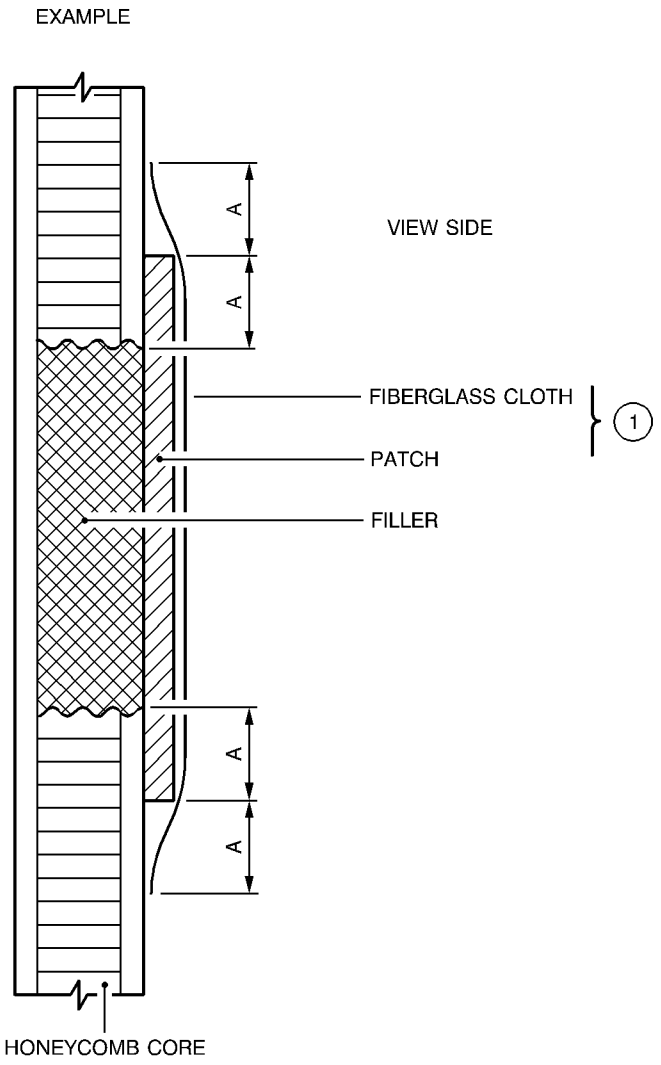
R (c)Select the Correct Repair Kit

| Material No. : | Damage Length | Damage Width |
|---|---|---|
| 08-075 (Akro Fireguard Patch, small) | 50.8 mm (2.0 in.) | 50.8 mm (2.0 in.) |
| 08-076 (Akro Fireguard Patch, medium) | 50.8 mm (2.0 in.) | 152 mm (6.0 in.) |
| 08-077 (Akro Fireguard Patch, large) | 152 mm (6.0 in.) | 152 mm (6.0 mm) |

NOTE : The repair patch must overlap the area of damage a minimum of 25.4 mm (1.0 in.) in all directions.

R (d)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE

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NOTE:

(1) AKRO FIREGUARD 300 SERIES

A = 25.4 mm (1.0 in.) MIN

Patch and Filler Method (Damage Not Through)
Figure 812

WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL.
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS:
THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

R NOTE : If the damage exceeds the dimension of the biggest repair
R patch, it is allowed to overlap patches in one direction only.
R Make sure that the minimum overlap width is 6.4 mm (0.25 in.).

1 Remove the damaged material from the lining(s).
2 If necessary, remove the layers of "TEDLAR" film from the repair area, at least as big as the patches to be used.

NOTE : The lining panel has a "TEDLAR" film if the white film has a resin of a different color under it.

3 Remove all the gloss finish and make the repair area smooth with the emery cloth, grade 80 - 120.
4 Remove all grit and dust from the repair area with a towel supplied in the repair kit(s).
R 5 Clean the repair area using **CLEANING AGENT** (Material No. 11-010)
R and a lint-free cloth **MISCELLANEOUS** (Material No. 19-003).
6 Install the repair patch:
- Bonding and Adhesive Compounds (Material No. 08-075)
or
- Bonding and Adhesive Compounds (Material No. 08-076)
or
- Bonding and Adhesive Compounds (Material No. 08-077).

a Mix the filler:
- Bonding and Adhesive Compounds (Material No. 08-115)
or
- Bonding and Adhesive Compounds (Material No. 08-115A)
or
- Bonding and Adhesive Compounds (Material No. 08-115B)
or
- Bonding and Adhesive Compounds (Material No. 08-115C)
and fill it into the prepared area.

b Install the repair patch on the damaged panel.
c Refer to the manufacturer's instructions for the work steps to complete the installation of the repair patch.

NOTE : The manufacturer's instructions are with the applicable repair kit.

d Make sure that:
- the repair patch overlaps the area of damage a minimum of 25.4 mm (1.0 in.) in all directions
- the re-inforcement glasscloth overlaps the repair patch a a minimum of 25.4 mm (1.0 in.) in all directions.

(d)Close-Up

1 Make sure that the work area is clean and clear of tools and other items.

2 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

R F. Patches and Filler Repair Method (Damage Through) - All Cargo Compartment Linings with Honeycomb Core

R (1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b)Material No. 08-075 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (c)Material No. 08-076 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (d)Material No. 08-077 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (e)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (f)Material No. 08-115 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (g)Material No. 08-115A | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (h)Material No. 08-115B | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (j)Material No. 08-115C | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (k)Material No. 19-003 | Miscellaneous (Ref. 20-31-00) |

| Referenced Procedure | |
|---|---|
| - 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

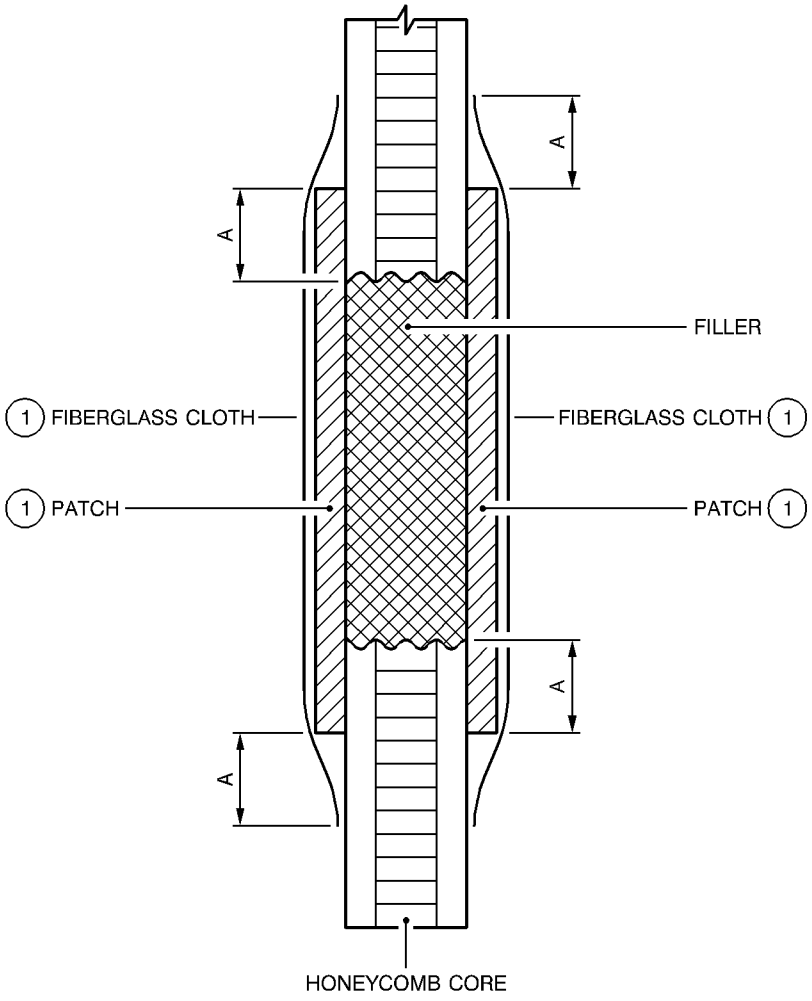
R (2)Procedure (Ref. Fig. 813)

(a)Job Set-Up

1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.

(b)Select the Correct Repair Kit

EXAMPLE

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NOTE:

(1) AKRO FIREGUARD 300 SERIES

A = 25.4 mm (1.0 in.) MIN

R Patches and Filler Method (Damage Through)
Figure 813

| Material No. : | Damage Length | Damage Width |
|---|---|---|
| 08-075 (Akro Fireguard Patch, small) | 50.8 mm (2.0 in.) | 50.8 mm (2.0 in.) |
| 08-076 (Akro Fireguard Patch, medium) | 50.8 mm (2.0 in.) | 152 mm (6.0 in.) |
| 08-077 (Akro Fireguard Patch, large) | 152 mm (6.0 in.) | 152 mm (6.0 mm) |

NOTE : The repair patch must overlap the area of damage a minimum of 25.4 mm (1.0 in.) in all directions.

(c)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL.
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS:
THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

NOTE : It is not permitted to overlap repair patches.

R NOTE : If the lining panel has an aluminium or titanium cover
R sheet installed, the repair patch on the view side of the panel
R should not overlap the cover sheet.

1 Remove the damaged material from the lining(s).
2 If necessary, remove the layers of "TEDLAR" film from the repair area, at least as big as the patches to be used.

NOTE : The lining panel has a "TEDLAR" film if the white film has a resin of a different color under it.

3 Remove all the gloss finish and make the repair area smooth with the emery cloth, grade 80 - 120.
4 Remove all grit and dust from the repair area with a towel supplied

in the repair kit(s).

5 Clean the repair area using **CLEANING AGENT (Material No. 11-010)** and a lint-free cloth **MISCELLANEOUS (Material No. 19-003)**.

6 Install the repair patch
- **Bonding and Adhesive Compounds (Material No. 08-075)**
  or
- **Bonding and Adhesive Compounds (Material No. 08-076)**
  or
- **Bonding and Adhesive Compounds (Material No. 08-077)**

on one side of the damaged panel.

a Refer to the manufacturer's instructions for the work steps to complete the installation of the repair patch.

**NOTE** : The manufacturer's instructions are with the applicable repair kit.

b Make sure that:
- the repair patch overlaps the area of damage a minimum of **25.4 mm (1.0 in.)** in all directions
- the re-inforcement glasscloth overlaps the repair patch a minimum of **25.4 mm (1.0 in.)** in all directions.

7 Mix the filler
- **Bonding and Adhesive Compounds (Material No. 08-115)**
  or
- **Bonding and Adhesive Compounds (Material No. 08-115A)**
  or
- **Bonding and Adhesive Compounds (Material No. 08-115B)**
  or
- **Bonding and Adhesive Compounds (Material No. 08-115C)**

and fill it into the prepared area.

8 Install the repair patch on the other side of the damaged panel.

a Refer to the manufacturer's instructions for the work steps to complete the installation of the repair patch.

**NOTE** : The manufacturer's instructions are with the applicable repair kit.

b Make sure that:
- the repair patch overlaps the area of damage a minimum of **25.4 mm (1.0 in.)** in all directions
- the re-inforcement glasscloth overlaps the repair patch a minimum of **25.4 mm (1.0 in.)** in all directions.

(d)Close-Up

1 Make sure that the work area is clean and clear of tools and other items.

2 Install the repaired lining(s) and return the aircraft to its initial configuration (Ref. 25-00-00, P. Block 801, Step 11.A(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

G. Patch, Filler and Rivets Repair Method (Damage Through) - All Cargo Compartment Linings with Honeycomb Core

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Heat Blanket |
| (c) | Gun - Fastener |
| (d) | CRES Rivets (NAS 1919 C 04 S 06 U) |
| (e) | CRES Rivets (NAS 1919 C 04 S 07 U) |
| (f) | Monel Rivet (NAS 1919 M 04 S 06 U) |
| (g) | Monel Rivet (NAS 1919 M 04 S 07 U) |
| (h) | 3.3 mm (0.128 in.) to 3.5 mm (0.137 in.) drill |
| (j) Material No. 08-083 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (k) Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (l) Material No. 08-115 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (m) Material No. 08-115A | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (n) Material No. 08-115B | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (p) Material No. 08-115C | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (q) Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1) |
| Referenced Procedure - 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 814)

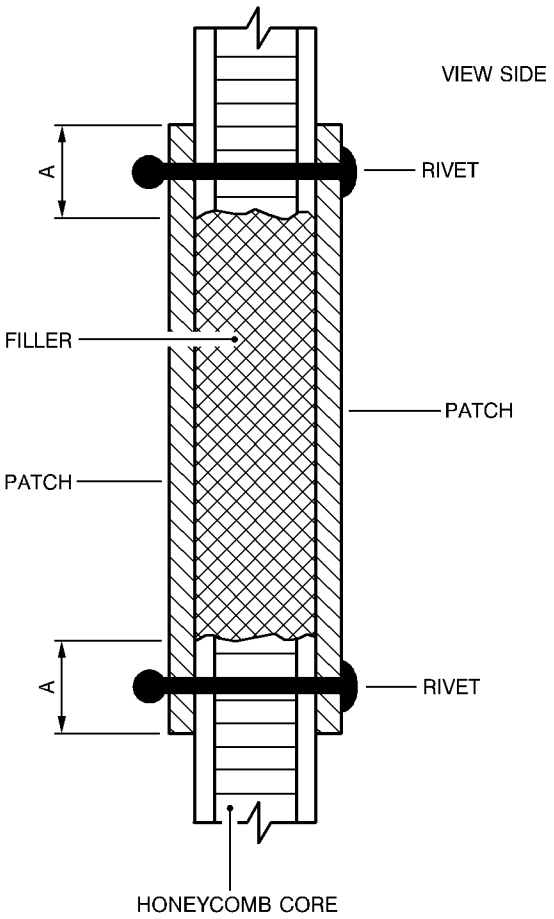
(a)Job Set-Up

1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.

(b)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS : THEY ARE POISONOUS, FLAMMABLE

EXAMPLE

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NOTE:

A = 38 mm (1.5 in.) MIN

Patch, Filler and Rivets Repair Method
Figure 814

AND SKIN IRRITANTS.

NOTE : It is not permitted to overlap repair patches.

R NOTE : If the lining panel has an aluminium or titanium cover
R sheet installed, the repair patch on the view side of the panel
R should not overlap the cover sheet.

1 Remove the damaged material from the lining(s).
2 Smooth and deburr the damaged area with the emery cloth, grade 80 - 120.
3 Clean the damaged area.

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth MISCELLANEOUS (Mat. No. 19-003) made moist with the CLEANING AGENTS (Mat. No. 11-010).
b Dry the damaged area with a clean, dry lint-free cloth.
4 Prepare the repair material
a Cut two patches BONDING AND ADHESIVE COMPOUNDS (Mat. No. 08-083) of the repair material to the necessary dimensions.

NOTE : The repair patches must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

b Deburr the edges of the repair patches with the emery cloth, grade 80 - 120.
5 Put the first repair patch on the repair area at the rear side of the panel.

NOTE : The repair patch must overlap the area of damage a minimum of 38 mm (1.5 in.) in all directions.

6 Install the first repair patch

WARNING : DO NOT TOUCH THE HEAT BLANKET. IF YOU MUST, WEAR HEAT RESISTANT GLOVES.

a Use the heat blanket, with a temperature range of between 100 and 110 DEG.C (212 and 230 DEG.F) and apply a small amount of force to it.

NOTE : The small amount of force is used to help bond the repair patch to the panel.

b Make sure that the repair patch overlaps the area of damage a minimum of 38 mm (1.5 in.) in all directions.
7 Mix the filler

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Mix the filler
- Bonding and Adhesive Compounds (Material No. 08-115)
  or
- Bonding and Adhesive Compounds (Material No. 08-115A)
  or
- Bonding and Adhesive Compounds (Material No. 08-115B)
  or
- Bonding and Adhesive Compounds (Material No. 08-115C)

and fill the prepared area of the repair with it.

8 Install the second repair patch

a Put the second repair patch on the repair area at the front side of the panel.

NOTE : The repair patch must overlap the area of damage a minimum of 38 mm (1.5 in.) in all directions.

b Install the heat blanket

WARNING : DO NOT TOUCH THE HEAT BLANKET. IF YOU MUST, WEAR HEAT RESISTANT GLOVES.

c Use the heat blanket, with a temperature range of between 100 and 110 DEG.C (212 and 230 DEG.F) and apply a small amount of force to it.

NOTE : The small amount of force is used to help bond the repair patch to the panel.

d Make sure that the repair patch overlaps the area of damage a minimum of 38 mm (1.5 in.) in all directions.

9 Install the Rivets

a Remove the heat blanket from the repair area.

b Drill equally spaced, 3.3 mm (0.128 in.) holes along the edges of the repair patches and the panel.

NOTE : The distance (the land) to the edges of the repair patch should not be less than 15 mm (0.5 in.).

NOTE : The distance (the pitch) between the holes should not be more than 100 mm (3.8 in.).

c Calculate the correct rivet length for the depth of the panel and the repair patches.

d Install the rivets as follows:
- Monel rivets (NAS 1919 M 04 S 06 U) or
- Monel rivets (NAS 1919 M 04 S 07 U) or
- CRES rivets (NAS 1919 C 04 S 06 U) or

- CRES rivets (NAS 1919 C 04 S 07 U).

(c)Close-Up

1 Make sure that the work area is clean and clear of tools and other items.

2 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

H. Speed Patch Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Emery Cloth, Grade 320 - 400 |
| (c) | Heat Blanket |
| (d) | Akro Fireguard (AF 800 Series) |
| (e) | Gillfab 1367P-013 |
| (f) | Gillpatch III |
| (g) Material No. 08-066 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (h) Material No. 08-083 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (j) Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (k) Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1) |

| Referenced Procedure | |
|---|---|
| - 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 815)

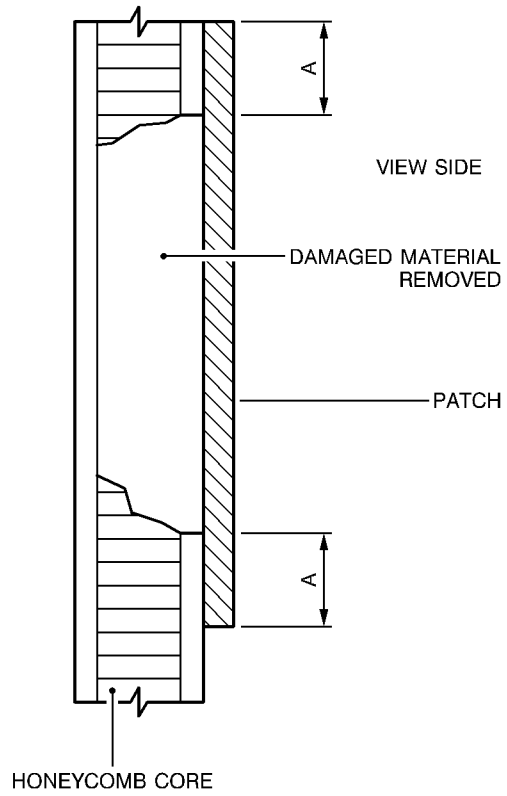
(a)Job Set-Up

1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.

(b)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL.
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS : THEY ARE POISONOUS, FLAMMABLE

EXAMPLE

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NOTE:
A = 38 mm (1.5 in.) MIN

Speed-Patch Repair Method (Damage Not Through)
Figure 815

AND SKIN IRRITANTS.

NOTE : It is not permitted to overlap repair patches.

1 Remove the damaged material from the lining(s).
2 Smooth and deburr the damaged area with the emery cloth, grade 80-120.
3 Clean the damaged area

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth **MISCELLANEOUS (Mat. No. 19-003)** made moist with the **CLEANING AGENTS (Mat. No. 11-010)**.
b Dry the damaged area with a clean, dry lint-free cloth.
4 Prepare the repair material
a Cut a patch **BONDING AND ADHESIVE COMPOUNDS (Mat. No. 08-083)** of the repair material to the necessary dimensions.

NOTE : The repair patches must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

b Deburr the edges of the repair patches with the emery cloth, grade 320 - 400.
5 Remove the protective film from the rear of the repair patch.

NOTE : Obey the manufacturer's instructions.

6 Install the Gillfab repair patch
a For the Gillfab repair **BONDING AND ADHESIVE COMPOUNDS (Mat. No. 08-066)**.
1 Remove the protective film from the rear of the repair patch.

NOTE : Obey the manufacturer's instructions.

2 Put the repair patch over the area of damage and push it into position.

NOTE : The repair patches must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

7 Install the Isovalta Rapid Hot-Melt patch repair **BONDING AND ADHESIVE COMPOUNDS (Mat. No. 08-083)**:
a Remove the protective film from the rear of the repair patch.

NOTE : Obey the manufacturer's instructions.

b Put the repair patch over the area of damage.

WARNING : DO NOT TOUCH THE HEAT BLANKET. IF YOU MUST, WEAR HEAT

RESISTANT GLOVES.

NOTE : The repair patches must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

c Use the heat blanket, with a temperature range of between 100 and 110 DEG.C (212 and 230 DEG.F) and apply a small amount of force to it.

NOTE : The small amount of force is used to help bond the repair patch to the panel.

d Make sure that the repair patch overlaps the damaged area a minimum of 38 mm (1.5 in.) in all directions.

(c)Close-Up

1 Make sure that the work area is clean and clear of tools and other items.

2 If necessary, remove the heat blanket from the repaired area.

3 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

J. Speed Patches, (On View Side) Repair Method (Damage Through) - All Cargo Compartment Linings with Honeycomb Core, Except Ceiling Panel

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Akro Fireguard (AF 800 Series) |
| (c) | Gillpatch III |
| (d) Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (e) Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1) |
| Referenced Procedure<br>- 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 816)

(a)Job Set-Up

1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.

(b)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.

DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS : THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

NOTE : It is not permitted to overlap repair patches.

1 Remove the damaged material from the lining(s).
2 Smooth and deburr the damage area with the emery cloth, grade 80 - 120.
3 Clean the damaged area.

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth MISCELLANEOUS (Mat. No. 19-003) made moist with the CLEANING AGENTS (Mat. No. 11-010).
b Dry the damaged area with a clean, dry lint-free cloth.
4 Prepare the repair material
a Cut two patches of the applicable repair material to the necessary dimensions.

NOTE : The first repair patch (1) must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

NOTE : The second repair patch (2) must be a minimum of 50 mm (2.0 in.) larger than the area of damage, in all directions.

b Deburr the edges of the repair patches with the emery cloth, grade 80 - 120.
5 Install the repair patches
a Remove the protective film from the rear of the repair patch (1).

NOTE : Obey the manufacturer's instructions.

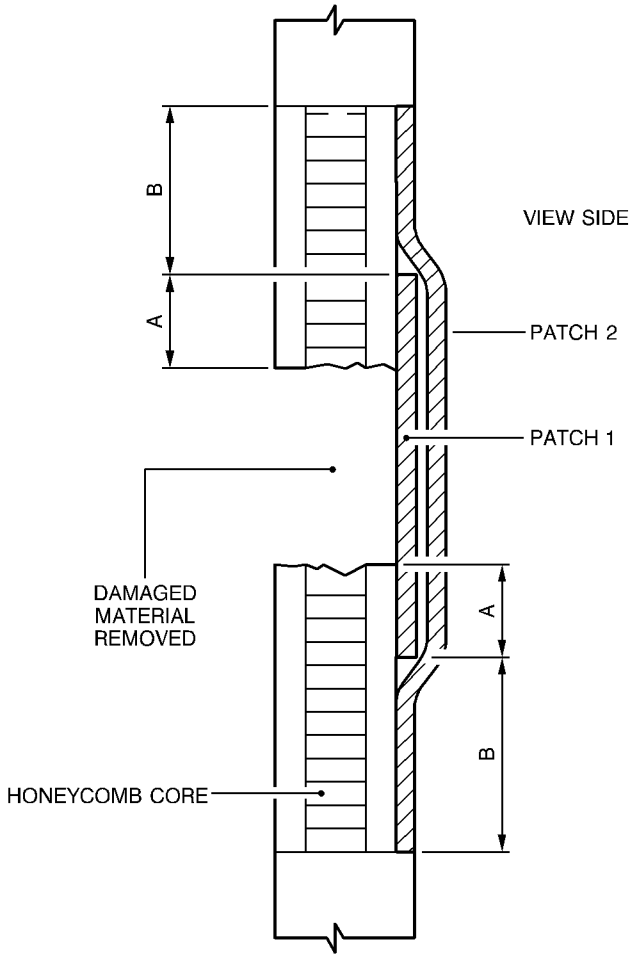
b Push the repair patch (1) over the area of damage and push it into position.
c Make sure that the repair patch (1) overlaps the damaged area a minimum of 38 mm (1.5 in.) in all directions.
d Remove the protective film from the rear of the repair patch (2).

NOTE : Obey the manufacturer's instructions.

e Put the repair patch (2) over the areas of damage and push it into position.
f Make sure that the repair patch (2) overlaps the damaged area a minimum of 50 mm (2.0 in.) in all directions.

(c)Close-Up

EXAMPLE




NOTE:
A = 38 mm (1.5 in.) MIN
B = 50 mm (2.0 in.) MIN
SIDEWALL, PARTITION AND PROTECTIVE PANELS

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Speed Patch (On View Side) Repair Method
(Damage Through)
Figure 816

1 Make sure that the work area is clean and clear of tools and other items.
2 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

K. Speed Patches, (On Both Sides) Repair Method (Damage Through) - All Cargo Compartment Linings with Honeycomb Core
(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Gillpatch III |
| (c) Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (d) Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1) |
| Referenced Procedure<br>- 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 817)
(a)Job Set-Up
1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.
(b)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS : THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

NOTE : It is not permitted to overlap repair patches.

1 Remove the damaged material from the lining(s).
2 Rework the contour of the damaged area to a regular shape.

NOTE : This will make it easier for you to cut and install the inlay patch correctly.

3 Smooth and deburr the damaged area with the emery cloth, grade 80 - 120.

4 Clean the damaged area.

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth MISCELLANEOUS (Mat. No. 19-003) made moist with the CLEANING AGENTS (Mat. No. 11-010).
b Dry the damaged area with a clean, dry lint-free cloth.

5 Prepare the repair material
a Cut two patches (1) and (3) of the repair material to the necessary dimensions.

NOTE : The repair patches must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

R NOTE : If the lining panel has an aluminium or titanium cover
R sheet installed, the repair patch on the view side of the panel
R should not overlap the cover sheet.

b Cut an inlay patch (2) to the same dimensions as the area of damage.
c Deburr the edges of the repair patches (1), (3) and the inlay patch (2) with the emery cloth, grade 80 - 120.

6 Install the repair patches
a Remove the protective film from the rear of the repair patch (1).

NOTE : Obey the manufacturer's instructions.

b Put the repair patch (1) over the damaged area (at the rear of the lining panel) and push it into position.
c Make sure that the repair patch (1) overlaps the damaged area a minimum of 38 mm (1.5 in.) in all directions.
d Remove the protective film from the rear of the inlay patch (2).

NOTE : Obey the manufacturer's instructions.

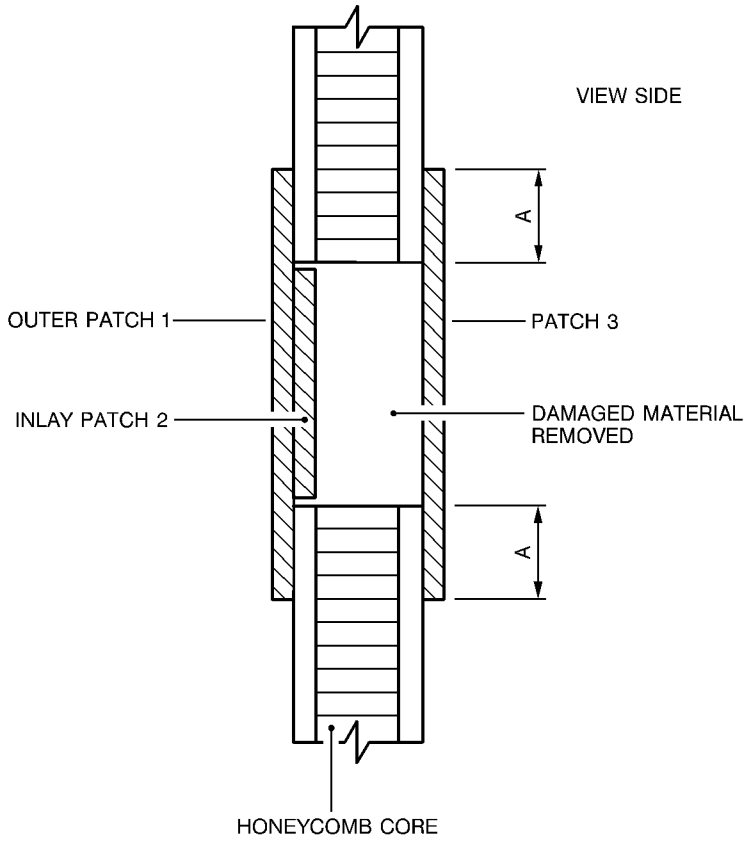
e Put the inlay patch (2) in position in the damaged area, from the front of the lining panel.
f Make sure that the inlay patch fully covers the adhesive side of the rear repair patch (1).
g Remove the protective film from the rear of the repair patch (3).

NOTE : Obey the manufacturer's instructions.

h Put the repair patch (3) over the damaged area (at the front of the lining panel) and push it into position.
j Make sure that the repair patch (3) overlaps the damaged area a minimum of 38 mm (1.5 in.) in all directions.

(c)Close-Up
1 Make sure that the work area is clean and clear of tools and other

EXAMPLE

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NOTE:
A = 38 mm (1.5 in.) MIN

Speed Patches, (On Both Sides) Repair Method (Damage Through)
Figure 817

items.

2 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

L. Speed Patches and Filler Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Gillfab 1367A-013 |
| (c) | Gillfab 1367P-013 |
| (d) | Gillpatch III |
| (e) Material No. 08-066 | Bonding and Adhesive Compounds (Ref. 20-31-00, P.Block 1) |
| (f) Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (g) Material No. 08-115 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| | or |
| (h)Material No. 08-115A | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| | or |
| (j)Material No. 08-115B | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| | or |
| (k)Material No. 08-115C | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| | or |
| (l) Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1) |
| Referenced Procedure - 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 818)

(a)Job Set-Up

1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.

(b)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.

DO NOT SMOKE WHEN YOU USE THE MATERIAL
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS : THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

NOTE : It is not permitted to overlap repair patches.

1 Remove the damaged material from the lining(s).

2 Smooth and deburr the damaged area with the emery cloth, grade 80 - 120.

3 Clean the damaged area.

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth MISCELLANEOUS (Mat. No. 19-003) made moist with the CLEANING AGENTS (Mat. No. 11-010).

b Dry the damaged area with a clean, dry lint-free cloth.

4 Prepare the repair material

a Cut a patch of the applicable repair material to the necessary dimensions.

NOTE : The repair patches must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

b Deburr the edges of the repair patches with the emery cloth, grade 80 - 120.

5 Apply the filler

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Mix the filler
- Bonding and Adhesive Compounds (Material No. 08-115)
or
- Bonding and Adhesive Compounds (Material No. 08-115A)
or
- Bonding and Adhesive Compounds (Material No. 08-115B)
or
- Bonding and Adhesive Compounds (Material No. 08-115C)

and fill the prepared area of the repair with it.

b Let the filler cure.

NOTE : Refer to the manufacturer's instructions for the filler curing times.

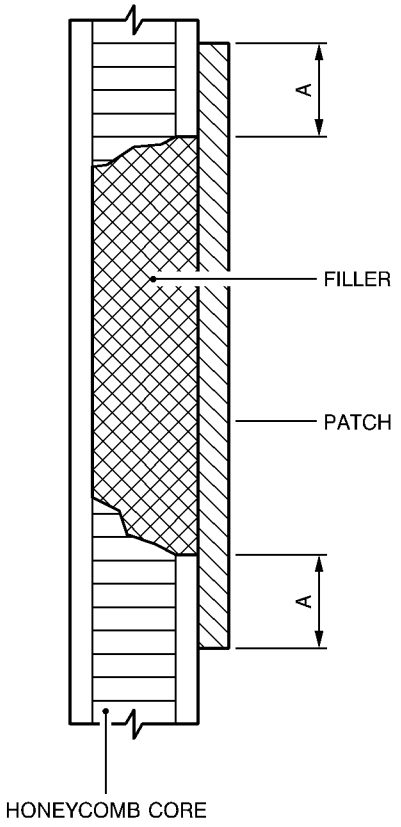
6 Install the repair patch

a Remove the protective film from the rear of the repair patch.

NOTE : Obey the manufacturer's instructions.

b Put the repair patch over the damaged area (at the front of the

EXAMPLE

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NOTE:
A = 38 mm (1.5 in.) MIN

Speed Patches and Filler Repair Method
(Damage Not Through)
Figure 818

lining panel) and push it into position.
c Make sure that the repair patch (1) overlaps the damaged area a minimum of 38 mm (1.5 in.) in all directions.

(c)Close-Up
1 Make sure that the work area is clean and clear of tools and other items.
2 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

M. Speed Patches and Filler Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core, Except Ceiling Panels

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Gillfab 1367A-013 |
| (c) | Gillfab 1367P-013 |
| (d) | Gillpatch III |
| (e) Material No. 08-066 | Bonding and Adhesive Compounds (Ref. 20-31-00, P.Block 1) |
| (f) Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (g) Material No. 08-115 | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (h) Material No. 08-115A | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (j) Material No. 08-115B | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) or |
| (k) Material No. 08-115C | Bonding and Adhesive Compounds (Ref. 20-31-00, P. Block 1) |
| (l) Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1) |
| Referenced Procedure - 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 819)

(a)Job Set-Up
1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step 11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.

(b)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:

- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.

DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS : THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

NOTE : It is not permitted to overlap repair patches.

1 Remove the damaged material from the lining(s).
2 Smooth and deburr the damaged area with the emery cloth, grade 80 - 120.
3 Clean the damaged area.

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth MISCELLANEOUS (Mat. No. 19-003) made moist with the CLEANING AGENTS (Mat. No. 11-010).
b Dry the damaged area with a clean, dry lint-free cloth.
4 Prepare the repair material
a Cut two patches of the applicable repair material to the necessary dimensions.

NOTE : The repair patches must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

b Deburr the edges of the repair patches with the emery cloth, grade 80 - 120.
5 Install the first repair patch
a Remove the protective film from the rear of the repair patch.

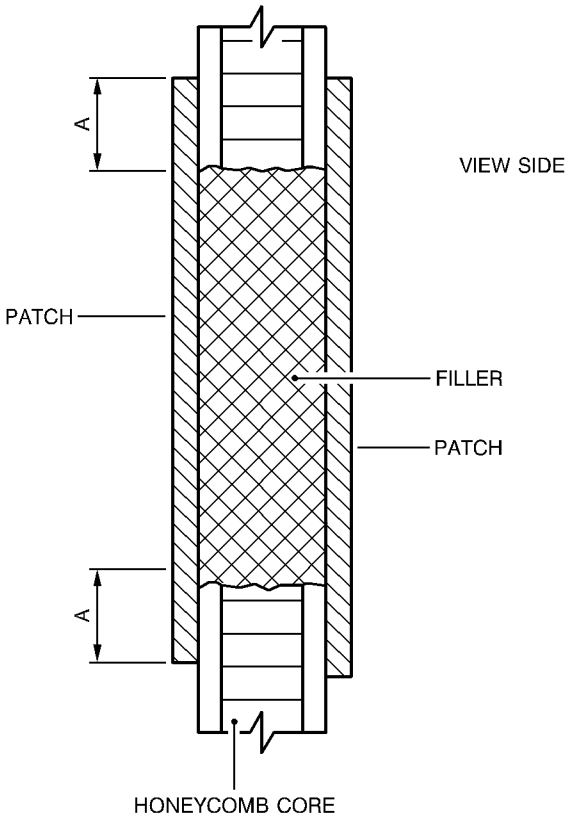
NOTE : Obey the manufacturer's instructions.

b Put the repair patch over the damaged area (at the front of the lining panel) and push it into position.
c Make sure that the repair patch overlaps the damaged area a minimum of 38 mm (1.5 in.) in all directions.
6 Apply the filler

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Mix the filler
- Bonding and Adhesive Compounds (Material No. 08-115)
or
- Bonding and Adhesive Compounds (Material No. 08-115A)

EXAMPLE

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NOTE:
A = 38 mm (1.5 in.) MIN

Speed Patches and Filler Repair Method
(Damage Through)
Figure 819

or
- Bonding and Adhesive Compounds (Material No. 08-115B)
or
- Bonding and Adhesive Compounds (Material No. 08-115C)
and fill the prepared area of the repair with it.

b Let the filler cure.

NOTE : Refer to the manufacturer's instructions for the filler curing times.

7 Install the second repair patch

a Remove the protective film from the rear of the repair patch.

NOTE : Obey the manufacturer's instructions.

b Put the repair patch over the damaged area (at the front of the lining panel) and push it into position.

c Make sure that the repair patch overlaps the damaged area a minimum of 38 mm (1.5 in.) in all directions.

(c)Close-Up

1 Make sure that the work area is clean and clear of tools and other items.

2 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

N. Stainless-Steel Patch Repair Method (Damage Not Through) - All Cargo Compartment Linings with Honeycomb Core

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery Cloth, Grade 80 - 120 |
| (b) | Sheet of Stainless Steel 0.6 to 2 mm 0.024 in. 0.08 in.) Thickness |
| (c) Material No. 08-001 | Bonding and Adhesive Compounds (Ref. 20-31-00, P.Block 1) |
| (d) Material No. 08-010A | Bonding and Adhesive Compounds (Ref. 20-31-00, P.Block 1) |
| (e) Material No. 08-066 | Bonding and Adhesive Compounds (Ref. 20-31-00, P.Block 1) |
| (f) Material No. 11-010 | Cleaning Agents (Ref. 20-31-00, P. Block 1) |
| (g) Material No. 19-003 | Miscellaneous (Ref. 20-31-00, P. Block 1) |

Referenced Procedure

| | |
|---|---|
| - 20-31-00, P. Block 1 | List of Materials Required for Aircraft Service |

(2)Procedure (Ref. Fig. 820)

(a)Job Set-Up

1 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, Step

11.A.(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo-Compartment Linings.

(b)Do the Repair

WARNING : MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA WHEN YOU USE SPECIAL MATERIALS.
IF YOU GET ONE OF THESE MATERIALS ON YOUR SKIN, IN YOUR MOUTH OR IN YOUR EYES:
- FLUSH IT AWAY WITH A FLOW OF CLEAN WATER FOR BETWEEN 10 AND 15 MINUTES.
- GET IMMEDIATE MEDICAL AID IF IRRITATION OCCURS.
DO NOT BREATHE THE FUMES FROM THE MATERIAL.
DO NOT SMOKE WHEN YOU USE THE MATERIAL
DO NOT USE THE MATERIAL NEAR A FLAME, SPARKS OR SOURCES OF HEAT.
THESE MATERIALS ARE DANGEROUS : THEY ARE POISONOUS, FLAMMABLE AND SKIN IRRITANTS.

NOTE : It is not permitted to overlap repair patches.

1 Remove the damaged material from the lining(s).
2 Smooth and deburr the damaged area with the emery cloth, grade 80 - 120.
3 Clean the damaged area.

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND A MASK.

a Clean the damaged area with a lint-free cloth MISCELLANEOUS (Mat. No. 19-003) made moist with the CLEANING AGENTS (Mat. No. 11-010).
b Dry the damaged area with a clean, dry lint-free cloth.
4 Prepare the repair material
a Cut a patch of the applicable repair material to the necessary dimensions.

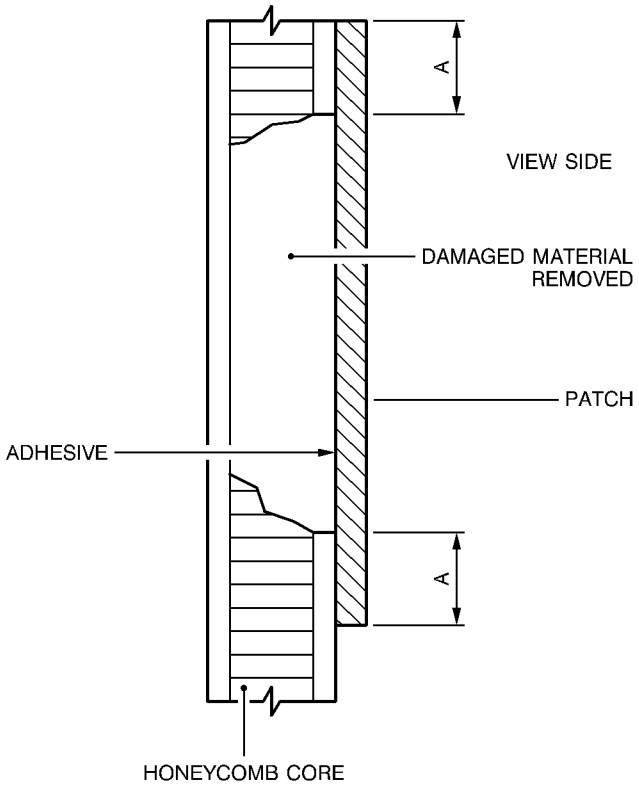
NOTE : The repair patches must be a minimum of 38 mm (1.5 in.) larger than the area of damage, in all directions.

b Deburr the edges of the repair patches with the emery cloth, grade 80 - 120.
5 Apply the filler

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL(S). USE PROTECTIVE CLOTHING, RUBBER GLOVES, GOGGLES AND AN MASK.

a Mix the applicable filler BONDING AND ADHESIVE COMPOUNDS (Mat. No. 08-001, 08-010 or 08-066) and fill the prepared area of the repair with it.
b Let the filler cure.

EXAMPLE

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NOTE:
A = 38 mm (1.5 in.) MIN

Stainless-Steel-Patch Repair Method
(Damage Not Through)
Figure 820

NOTE : Refer to the manufacturer's instructions for the filler curing times.

6 Install the repair patch
a Remove the protective film from the rear of the repair patch.

NOTE : Obey the manufacturer's instructions.

b Put the repair patch over the damaged area (at the front of the lining panel) and push it into position.
c Make sure that the repair patch overlaps the damaged area a minimum of 38 mm (1.5 in.) in all directions.

(c)Close-Up
1 Make sure that the work area is clean and clear of tools and other items.
2 Install the Repaired Lining(s) and Return the Aircraft to its Initial Configuration (Ref. 25-00-00, P. Block 801, Step 11.A.(2)(h) thru (2)(k), as necessary) - General Information for the Repair of the Cargo-Compartment Lining(s).

P. Speed Patch and Filler to the Edge Repair Method (Damage Not Through from the Edge) - All Cargo Compartment Linings with Honeycomb Core

(1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Emery cloth, grade 80-120 |
| (b) | Gillpatch III |
| (c)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (d)Material No. 08-115 | Bonding and Adhesive Compounds (Ref. 20-31-00) P. Block 1) |
| | or |
| (e)Material No. 08-115A | Bonding and Adhesive Compounds (Ref. 20-31-00) P. Block 1) |
| | or |
| (f)Material No. 08-115B | Bonding and Adhesive Compounds (Ref. 20-31-00) P. Block 1) |
| | or |
| (g)Material No. 08-115C | Bonding and Adhesive Compounds (Ref. 20-31-00) P. Block 1) |
| (h)Material No. 19-003 | Miscellaneous (Ref. 20-31-00) |
| Referenced Procedure | |
| - 20-31-00, P. Block 1 | List of Materials required for Aircraft Service |

(2)Procedure (Ref. Fig. 821)
(a)Job Set-Up
1 Identify the damage limits (Ref. Fig. 809).
If the length of a damaged area is more than 25 mm (0.98 in.):
- the minimum distance to another damaged area or repaired area in the same panel is 50 mm (1.97 in.)
- if the distance to another damaged area is less than 50 mm

(1.97 in.), both damaged areas should be considered as a single damaged area.

2 Prepare the Lining(s) for Repair (Ref. 25-00-00, P. Block 801, step 11.A(1) thru (2)(g), as necessary) - General Information for the Repair of the Cargo Compartment Linings.

(b)Do the Repair

WARNING : OBEY THE MANUFACTURERS INSTRUCTIONS WHEN YOU USE THE SPECIAL MATERIAL.
THIS MATERIAL IS DANGEROUS.

WARNING : USE SOLVENTS/CLEANING AGENTS, SEALANTS AND OTHER SPECIAL MATERIALS ONLY WITH A GOOD SUPPLY OF AIR.
OBEY THE MANUFACTURERS INSTRUCTIONS.
PUT ON PROTECTIVE CLOTHING.
DO NOT GET THEM IN YOUR MOUTH.
DO NOT SMOKE.
DO NOT BREATHE THE GAS.
THESE MATERIALS ARE POISONOUS, FLAMMABLE AND SKIN IRRITANT.
GET MEDICAL HELP IF YOUR SKIN OR EYES BECOME IRRITATED.

NOTE : Do not use the patch to overlap another repair.

1 Remove the damaged material from the core and edge of the lining panel.
2 Smooth and deburr the edges of the repair with emery cloth grade 80-120.
3 Clean the repair area with CLEANING AGENTS (Material No. 11-010) and a lint-free cotton cloth MISCELLANEOUS (Material No. 19-003).
4 Make sure that the repair area is dry.
5 Cut a patch to the applicable dimensions.

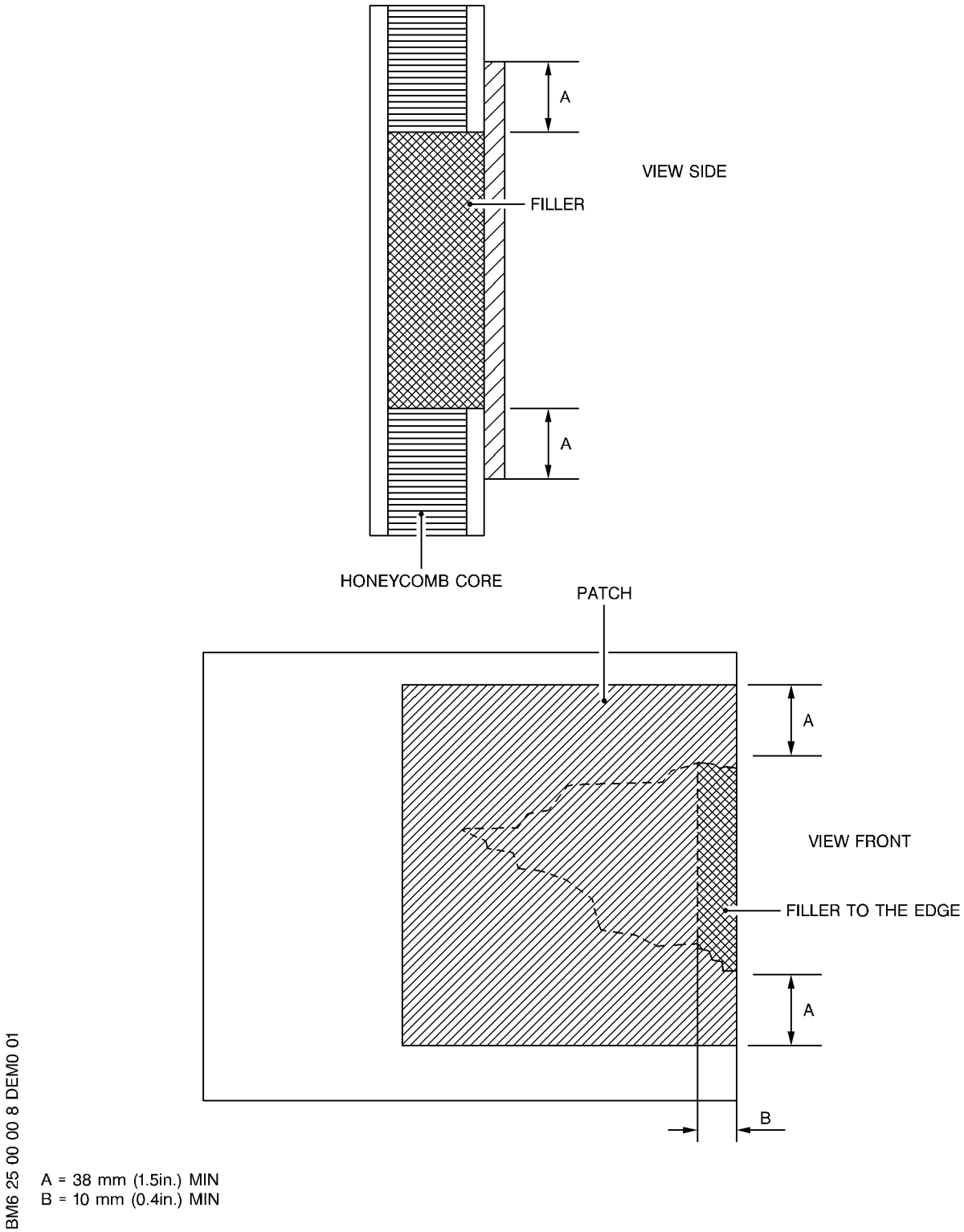
NOTE : The repair patch must be 38 mm (1.5 in.) larger than the damaged area in all directions.

6 Deburr the edges of the patch with emery cloth grade 80-120.
7 Mix the filler
- Bonding Adhesive Compounds (Material No. 08-115)
or
- Bonding Adhesive Compounds (Material No. 08-115A)
or
- Bonding Adhesive Compounds (Material No. 08-115B)
or
- Bonding Adhesive Compounds (Material No. 08-115C)
and fill the prepared repair area.

NOTE : Obey the manufacturers instructions.

NOTE : The quantity of filler used must ensure a minimum width of 10 mm (0.4 in.) from the edge.

8 Smooth the edge of the cured repaired area with emery cloth,




Filler/Patch - Damage Not Through from the Edge
Figure 821

grade 80-120.
9 Make sure that the repair area is dry.
10 Remove the protective backing from the patch.

NOTE : Obey the manufacturers instructions.

11 Put the patch over the damaged area on the view side of the panel and push it into position.

(c)Close-Up
1 Make sure that the work area is clean and clear of tools and other items.
2 If necessary, remove the heat blanket from the repaired area.
3 Install the Repaired Lining(s) and return the aircraft to its initial configuration (Ref. 25-00-00, P. Block 801), step 11.A.(2)(h) thru (2)(k), as necessary - General Information for the Repair of the Cargo-Compartment Lining(s).

12. Protection of Cargo Compartment Linings with S-Glass Patch - All Cargo Compartment Linings with Honeycomb Core

A. Reason for the Job
(1)This task gives a procedure to bond a protection patch (S-glass layer) on the view side of the cargo compartment sidewalls, ceiling and partition panels to make them stronger.

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform 2 m (6 ft.) |
| (2) | Warning Notice |
| (3) | Roller - Rubber |
| (4) | Scraper - Non Metallic |
| (5) | S-Glass Layer Assembly D2557651900200 |
| (6) | S-Glass Layer D2557651900000 |
| (7)Material No. 08-001 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (8)Material No. 08-060 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (9)Material No. 11-010 | Cleaning Agents (Ref. 20-31-00) |
| (10)Material No. 19-003 | Miscellaneous (Ref. 20-31-00) |
| Referenced Procedures | |
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 24-41-00, P. Block 301 | AC EXTERNAL Power Control |
| - 25-54-10, P. Block 201 | FWD Cargo Compartment - Linings |
| - 25-55-10, P. Block 201 | AFT Cargo Compartment - Linings |
| - 25-56-11, P. Block 201 | BULK Cargo Compartment - Linings |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 53-10-53, P. Block 401 | Avionics Compartment - Fixed Partition |

- 53-10-55, P. Block 401 FWD Cargo Compartment - Fixed Partition
- 53-10-57, P. Block 401 AFT Cargo Compartment - Fixed Partition
- 53-10-59, P. Block 401 BULK Cargo Compartment - Fixed Partition
- SIL 25-097

C. Procedure

(1)Job Set-Up

(a)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(b)Make certain that electronics racks ventilation is correct.

(c)Put the applicable access platform in position below the related cargo compartment door.

(d)Put a warning notice in position (at the cargo compartment door) prohibiting the operation of the cargo loading system.

(e)Open the related cargo compartment door (Ref. 52-30-00, P. Block 1).

(f)Install the safety lock on the actuator of the related cargo compartment door (Ref. 52-30-00, P. Block 301).

(g)Remove the related lining(s) as follows:

NOTE : This is only necessary if you do the procedure given in Para. 'E' or 'F' in the workshop.

- for the FWD cargo compartment lining(s) (Ref. 25-54-10, P. Block 201)
- for the FWD cargo compartment fixed partition (Ref. 53-10-55, P. Block 401)
- for the avionics compartment fixed partition (Ref. 53-10-53, P. Block 401)
- for the AFT cargo compartment lining(s) (Ref. 25-55-10, P. Block 201)
- for the BULK cargo compartment lining(s) (Ref. 25-56-11, P. Block 201
- for the BULK cargo compartment fixed partition(s) (Ref. 53-10-59, P. Block 401).

(h)Make sure that the linings are clean and in the correct condition.

1 If necessary, do the repair (Ref. step 11. D.).

(j)For material information, refer to SIL 25-097.

(k)Select the related procedure 'A' or 'B' (Ref. Fig. 822).

E. Procedure 'A' - Installation of a Protection Patch (S-Glass Layer Assembly D2557651900200) with Double-Sided Adhesive Layer (Ref. Fig. 823)

NOTE : The weight of the lining will increase by 790 g (27.86 oz.) per 1 $m^2$ (10.76 ft.2).

NOTE : Do not use the patch to overlap another protection patch.

(1)Cut a protection patch S-Glass layer assembly D2557651900200 to the applicable dimensions.

(2)Transfer/drill all holes from the lining before you install the

protection patch.

WARNING : USE SOLVENTS/CLEANING AGENTS, SEALANTS AND OTHER SPECIAL MATERIALS ONLY WITH A GOOD SUPPLY OF AIR.
OBEY THE MANUFACTURERS INSTRUCTIONS.
PUT ON PROTECTIVE CLOTHING.
DO NOT GET THEM IN YOUR MOUTH.
DO NOT SMOKE.
DO NOT BREATHE THE GAS.
THESE MATERIALS ARE POISONOUS, FLAMMABLE AND SKIN IRRITANT.
GET MEDICAL HELP IF YOUR SKIN OR EYES BECOME IRRITATED.

(3)Clean the contact surface of the lining with cleaning agents (Material No. 11-010) and a lint-free cotton cloth miscellaneous (Material No. 19-003).
(4)Install the protection patch.

WARNING : MAKE SURE THAT THE PROTECTION PATCH DOES NOT TOUCH THE FASTENERS, THE WASHERS AND THE FLANGES OF THE DECOMPRESSION PANEL. IF THE PATCH TOUCHES THESE ITEMS, IT IS POSSIBLE THAT THE DECOMPRESSION PANEL WILL NOT OPERATE CORRECTLY.

(a)At a corner of the protection patch, lift a small piece of the protective backing.
(b)Carefully put the protection patch in position on the view side of the lining.
(c)Make sure that all holes are aligned and that there is a sufficient clearance to the adjacent components (e.g. decompression panel).
(d)Carefully hold the protection patch, remove the remaining protective backing and put the protection patch onto the lining.
(e)Press the protection patch onto lining with a rubber roller.

NOTE : Move the roller from the center to the edges to avoid or remove air bubbles.

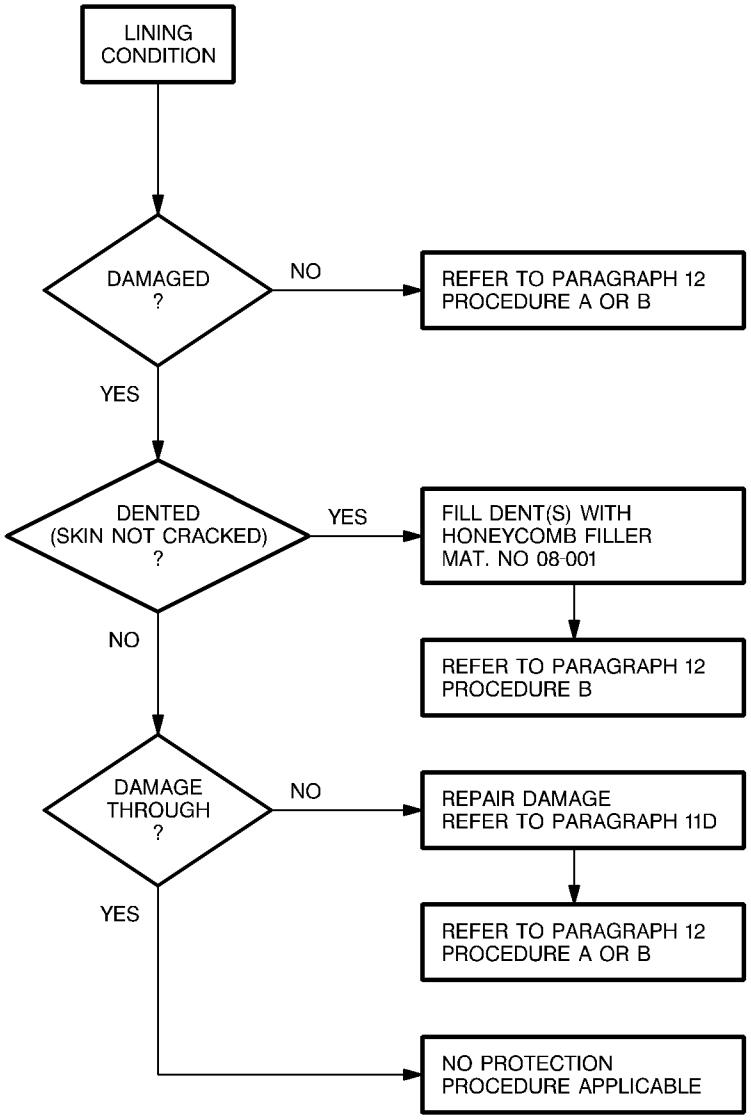
(f)Make sure that all interface holes and cutouts are in the correct position so that you can install the panel and/or the related equipment.

F. Procedure 'B' - Installation of a Protection Patch (S-Glass layer D2557651900000) with 2 Component Adhesive
(Ref. Fig. 823)

NOTE : The weight of the lining will increase by 690 g (24.33 oz) per 1 m² (10.76 ft.2).

NOTE : Do not use the patch to overlap another protection patch.

(1)Cut a protection patch S-Glass layer D2557651900000 to the applicable dimensions.
(2)Transfer/drill all holes from the lining before you install the

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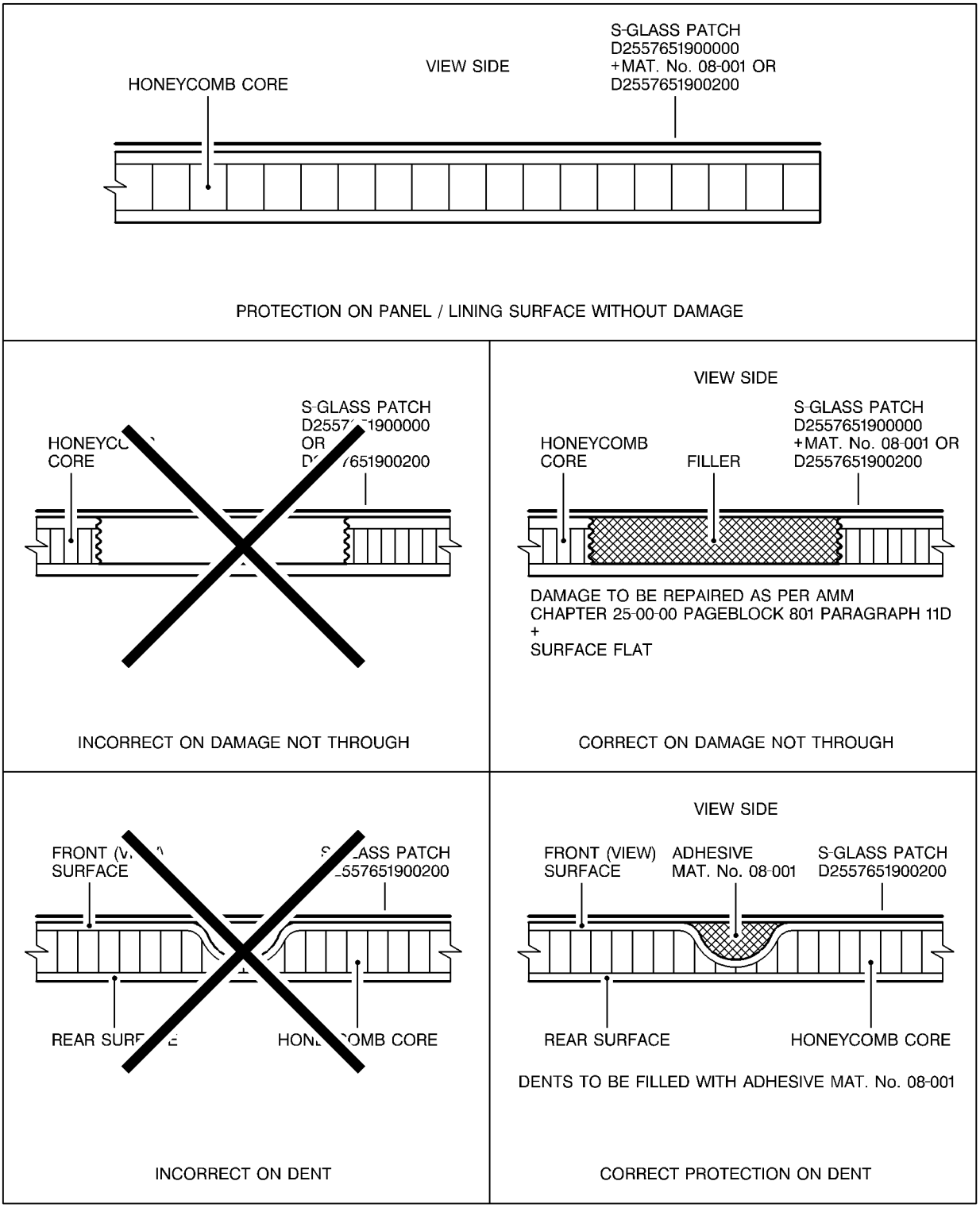
Repair Procedure Identification Chart
Figure 822

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Honeycomb Linings Protection Patch
Figure 823

protection patch.

(3)Clean the contact surfaces of the lining and the protection patch with cleaning agents (Material No. 11-010) and a lint-free cotton cloth miscellaneous (Material No. 19-003).

WARNING : USE SOLVENTS/CLEANING AGENTS, SEALANTS AND OTHER SPECIAL MATERIALS ONLY WITH A GOOD SUPPLY OF AIR.
OBEY THE MANUFACTURERS INSTRUCTIONS.
PUT ON PROTECTIVE CLOTHING.
DO NOT GET THEM IN YOUR MOUTH.
DO NOT SMOKE.
DO NOT BREATHE THE GAS.
THESE MATERIALS ARE POISONOUS, FLAMMABLE AND SKIN IRRITANT.
GET MEDICAL HELP IF YOUR SKIN OR EYES BECOME IRRITATED.

(4)Apply the adhesive.

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THIS/THESE MATERIAL/S.
USE PROTECTIVE CLOTHING AND RUBBER GLOVES.

(a)Apply 200 g (7.05 oz) (fluid weight) of bonding and adhesive compounds (Material No. 08-001) per 1 $m^2$ (10.76 ft.2) to the contact surface of the protection patch with a non metallic scraper.

(5)Install the protection patch.

WARNING : MAKE SURE THAT THE PROTECTION PATCH DOES NOT TOUCH THE FASTENERS, THE WASHERS AND THE FLANGES OF THE DECOMPRESSION PANEL.
IF THE PATCH TOUCHES THESE ITEMS, IT IS POSSIBLE THAT THE DECOMPRESSION PANEL WILL NOT OPERATE CORRECTLY.

(a)Carefully put the protection patch in position on the view side of the lining.
(b)Make sure that all holes are aligned and that there is a sufficient clearance to the adjacent components (e.g. decompression panel).
(c)If necessary, move the protection patch to the correct position.
(d)Carefully press the protection patch onto lining with a rubber roller.

NOTE : Move the roller from the center to the edges to avoid or remove air bubbles.

(e)Remove the unwanted sealant with a non metallic scraper.
(f)Make sure that all interface holes and cutouts are in the correct position so that you can install the panel and/or the related equipment.
(g)Attach the protection patch in position with bonding and adhesive compounds (Material No. 08-060) for 3 hours.
(h)Remove the tape after the adhesive has cured.

G. Close-Up

(1)Install the cargo compartment lining(s) if removed as follows:

- for the FWD cargo compartment lining(s) (Ref. 25-54-10, P. Block 201)
- for the FWD cargo compartment fixed partition (Ref. 53-10-55, P. Block 401)
- for the avionics compartment fixed partition (Ref. 53-10-53, P. Block 401)
- for the AFT cargo compartment lining(s) (Ref. 25-55-10, P. Block 201)
- for the BULK cargo compartment lining(s) (Ref. 25-56-11, P. Block 201
- for the BULK cargo compartment fixed partition(s) (Ref. 53-10-59, P. Block 401).

(2)If necessary, install new placards to the protected linings (Ref. 11-00-00, P. Block 1).
(3)Make sure that the work area is clean and clear of tools and other items.
(4)Remove the safety lock on the actuator of the related cargo compartment door (Ref. 52-30-00, P. Block 301).
(5)Close the related cargo compartment door (Ref. 52-30-00, P. Block 1).
(6)Remove the warning notice.
(7)Remove the access platform.
(8)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

13. Repair of Heat and Sound Insulation

A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a)No Specific | 1 Gloves - Rubber |
| (b)No Specific | 1 Goggles - Protective |
| (c)No Specific | 1 Face Mask |
| (d)No Specific | Glass Wool DAN 88B20 |
| (e)No Specific | Glass Wool ABS 5630 B |
| (f)No Specific | Wrapper Foil DAN 379B (non-compliant with FAR25.856(a)) |
| (g)No Specific | Wrapper Foil Terul 18 (compliant with FAR25.856(a)) |
| (h)No Specific | Adhesive Tape KB42 (compliant with FAR25.856(a)) |
| (j)Material No. 08-073 | Adhesive Tape ASNA 3572 (non-compliant with FAR25.856(a)) |
| | |
| Referenced Procedures | |
| - 25-12-11, P. Block 401 | Heat and Sound Insulation |
| - 25-22-11, P. Block 401 | Heat and Sound Insulation |
| - 25-50-21, P. Block 401 | Heat and Sound Insulation |
| - 25-71-12, P. Block 401 | Heat and Sound Insulation |
| - PMS 01-05-61 | Process and Material Specification |
| - PMS 01-05-64 | Process and Material Specification |

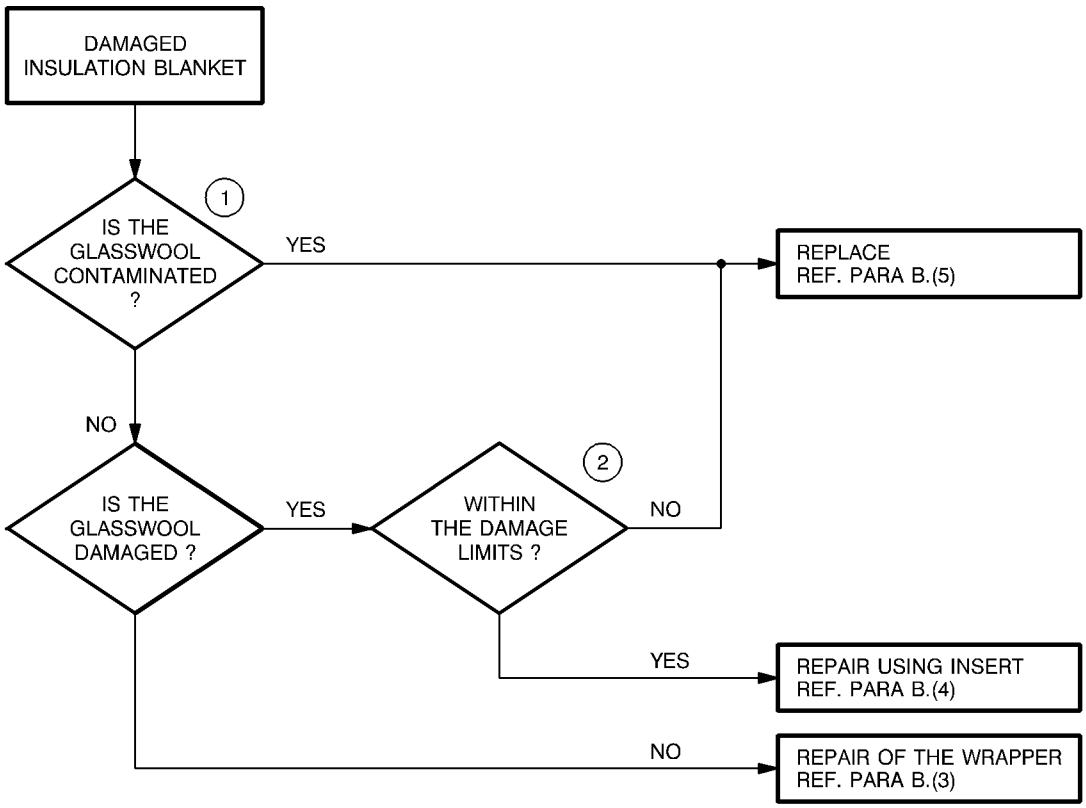
- PMS 02-10-01 Process and Material Specification
- SIL 25-135

B. Procedure
(Ref. Fig. 824)
(1)Identify the damage type (Ref. Fig. 824).
(2)Removal of the Insulation Blanket.

WARNING : YOU MUST ALWAYS WEAR RUBBER GLOVES WHEN YOU DO THIS PROCEDURE.
WARNING : AVOID BREATHING OF VAPORS.
WARNING : PUT ON THE CORRECT FACE MASK. THE GAS IS POISONOUS.

(a)If you must remove a contaminated blanket, wear protective clothing.
1 Remove the damaged insulation blanket if necessary (Ref. 25-12-11, P. Block 401; 25-22-11, P. Block 401; 25-50-21, P. Block 401 or 25-71-12, P. Block 401).
(3)Repair of the Wrapper
(Ref. Fig. 825)
(a)Refer to SIL 25-135.
(b)Repair of damage type 1 (tears):
1 Bond the bonding and adhesive compounds (Mat. No. 08-073) (non-compliant with FAR25.856(a)) or adhesive tape KB42 (compliant with FAR25.856(a)) over the tear(s).
NOTE : The adhesive tape should have an overlap of 25 mm (0.98 in.) to the edge of the tear in all directions.
(c)Repair of damage type 2 (missing wrapper material):
1 Attach a patch of wrapper foil DAN 379B (non-compliant with FAR25.856(a)) with bonding and adhesive compounds (Mat. No. 08-073) (non-compliant with FAR25.856(a))
Or:
2 Attach a patch of wrapper foil Terul 18 (compliant with FAR25.856(a)) with adhesive tape KB42 (compliant with FAR25.856(a)) over the damaged area.
NOTE : The adhesive tape should have an overlap of 25 mm (0.98 in.) to the edge of the patch in all directions.
(d)Repair of damage type 3 (tears or missing wrapper material at the edge of the blanket).
NOTE : This repair is limited to the adhesive tape maximum available width.
1 Bond bonding and adhesive compounds (Mat. No. 08-073) (non-compliant with FAR25.856(a)) or adhesive tape KB42 (compliant with FAR25.856(a)) over the damage.
NOTE : The adhesive tape should have an overlap of 25 mm (0.98 in.). to the edge of the damage. The length of the tape should cover the other side of the blanket as shown in section B-B.

(4)Repair with Blanket Insert
(Ref. Fig. 826)
(a)Refer to SIL 25-135.
(b)Cut the damaged area (wrapper on each side and the glass wool) out of the insulation blanket in a rectangular shape.




NOTE:

(1) CONTAMINATED MEANS THAT THE GLASS WOOL IS DIRTY AND/OR SOAKED WITH A LIQUID OTHER THAN CONDENSATION. IF SOAKED WITH CONDENSATION BUT CLEAN, THE BLANKET SHOULD BE DRIED IN A VENTILATED AREA, BEFORE THE REPAIR.

(2) THE SIZE OF THE DAMAGE SHOULD BE LESS THAN 20% OF THE BLANKET SIZE AND THE DAMAGE SHOULD BE MORE THAN 100mm (3.94 in.) FROM EVERY EDGE OF THE BLANKET.

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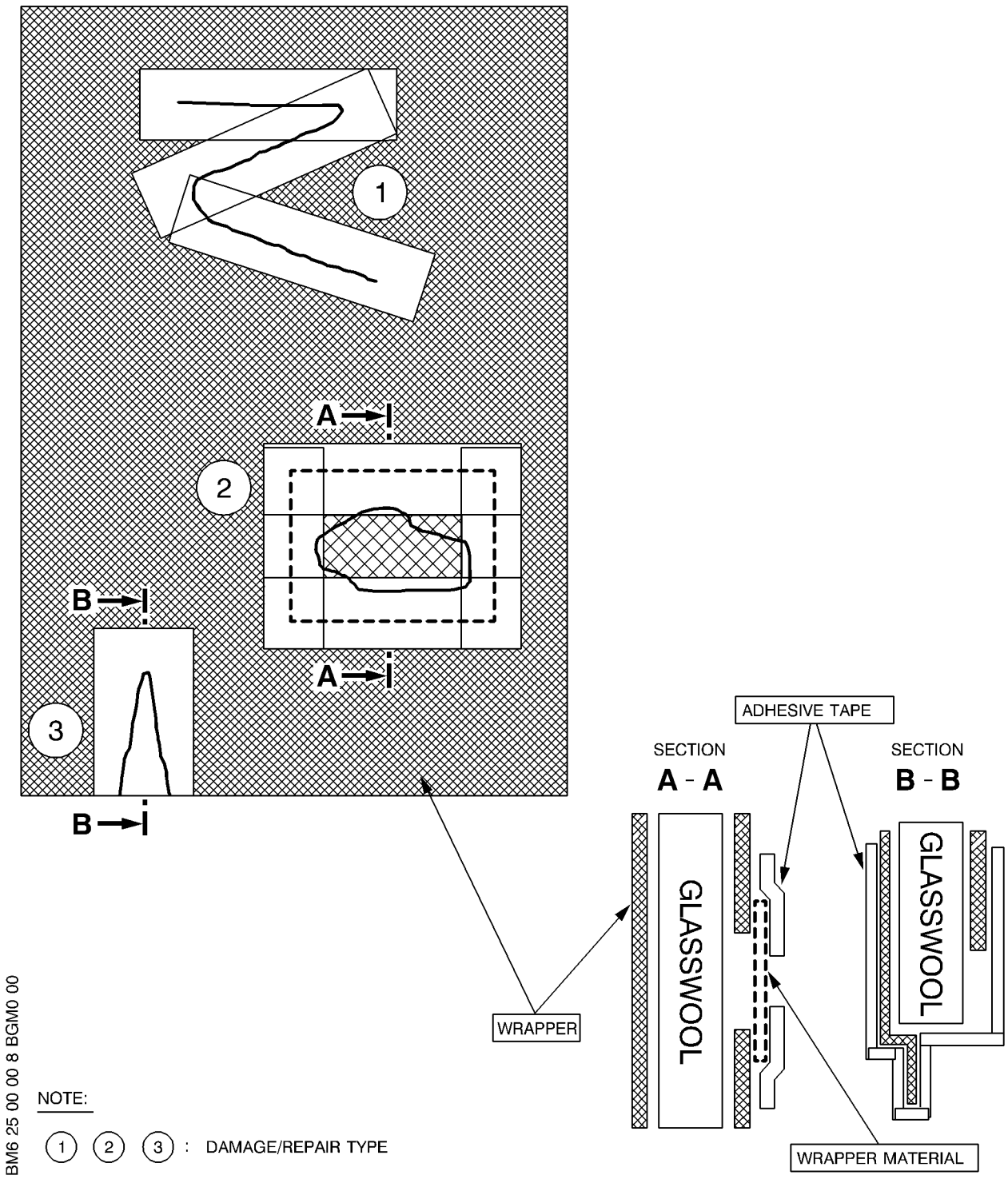
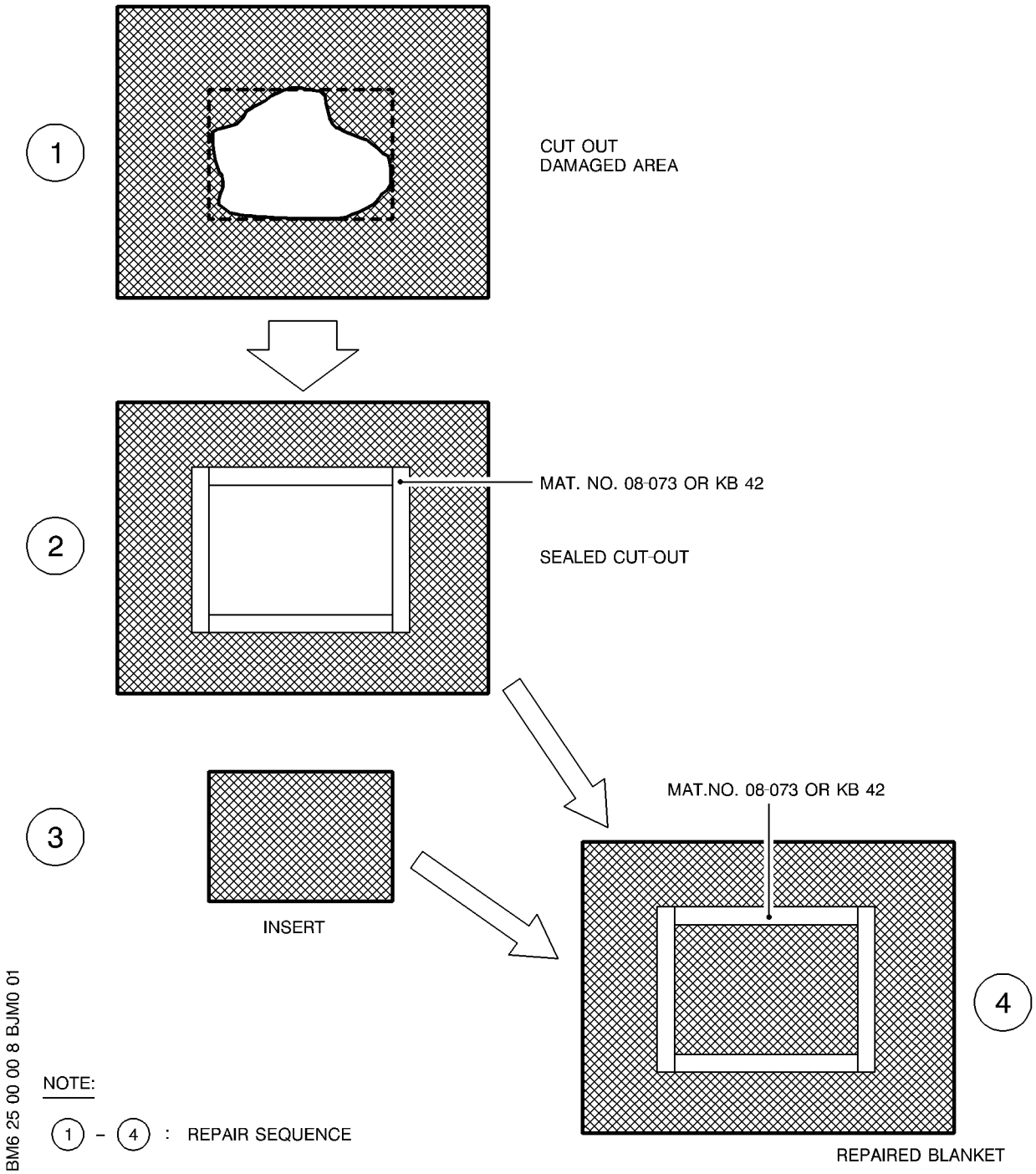
Repairs to Insulation Blanket
Figure 824

# REPAIR OF THE WRAPPER




Repair of the Wrapper
Figure 825

# REPAIR USING INSERT




Repair with Blanket Insert
Figure 826

(c)Seal the edges of the cut-out correctly with bonding and adhesive compounds (Mat. No. 08-073) (non-compliant with FAR25.856(a)) or adhesive tape KB42 (compliant with FAR25.856(a)).

(d)Accurately to the cut-out of the insulation blanket:

1 Refer to PMS 01-05-61: Make a blanket insert of glass wool DAN 88B20, wrapper foil DAN 379B (non-compliant with FAR25.856(a)) and bonding and adhesive compounds (Mat. No. 08-073) (non compliant with FAR25.856(a)).

2 Refer to PMS 01-05-64: Make a blanket insert of glass wool ABS5630B, wrapper foil Terul 18 (compliant with FAR25.856(a)) and adhesive tape KB42 (compliant with FAR25.856(a)).

(e)Install the blanket insert into the cut-out of the insulation blanket and attach it with bonding and adhesive compounds (Mat. No. 08-073) (non-compliant with FAR25.856(a)) or adhesive tape KB42 (compliant with FAR25.856(a)).

(5)Replacement/Local Manufacturing

(Ref. Fig. 827)

(a)Local manufacturing of a replacement insulation blanket in the workshop:

1 Make a new insulation blanket that is non-compliant with FAR25.856(a), refer to PMS 01-05-61, or compliant with FAR25.856(a), refer to PMS 01-05-64.

- Use the cross-reference-table available in PMS 02-10-01 to find the material compliant with FAR25.856(a).

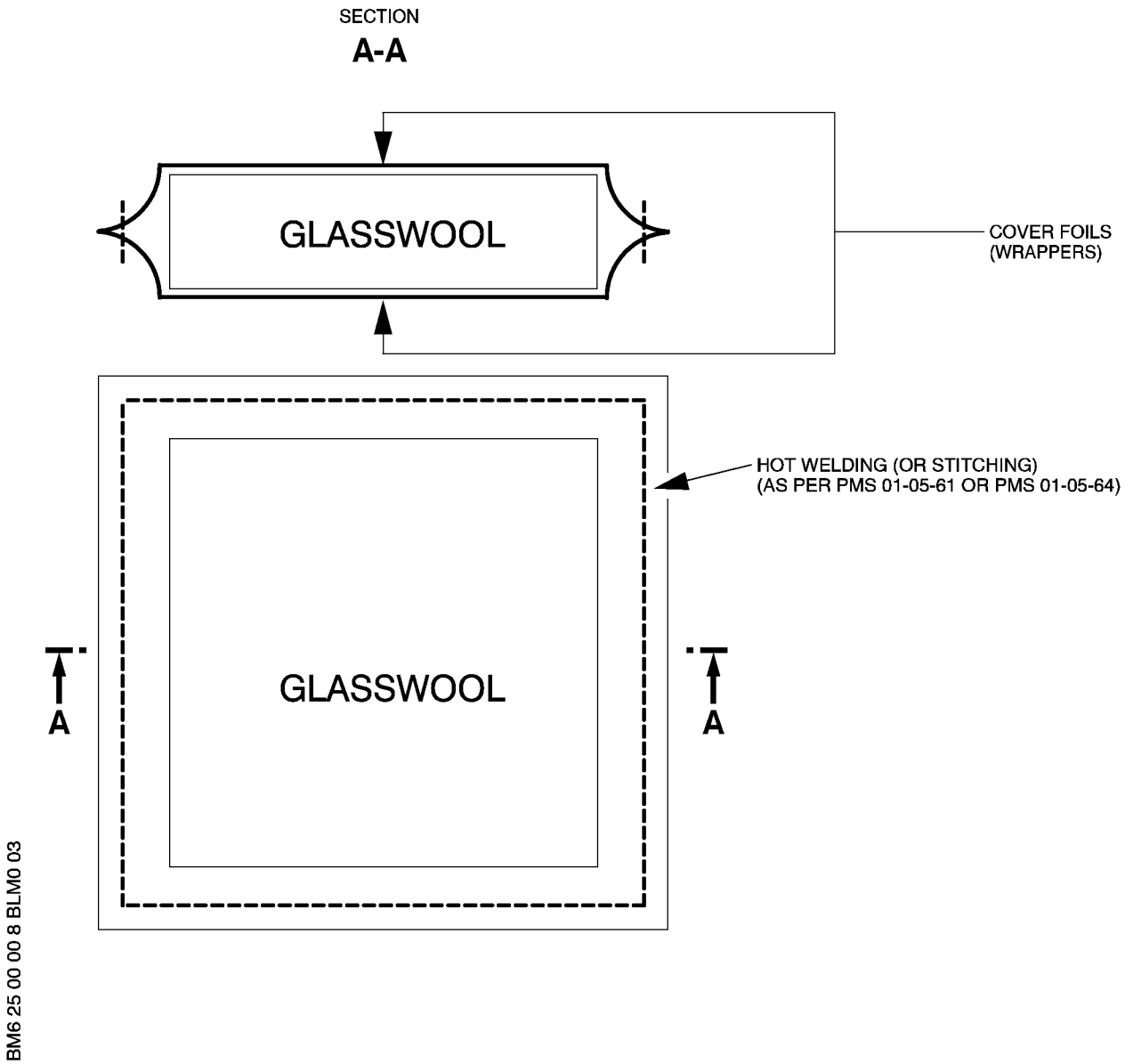
NOTE : If the locally manufactured part is compliant with FAR25.856(a), you can show this with a placard or a stamp.

(6)Close-up

(a)Install repaired, local manufactured or new insulation blanket (Ref. 25-12-11, P. Block 401; 25-22-11, P. Block 401; 25-50-21, P. Block 401 or 25-71-12, P. Block 401).

(b)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# REPLACEMENT / LOCAL MANUFACTURING




Insulation Blanket - General Information
Figure 827

R

# FLIGHT COMPARTMENT

## 1. General

The flight compartment comprises the area above the floor structure between frames 1 and 10a. Access to the flight compartment is gained by the left and
R right forward passenger/crew doors. The inner skin is lined with heat and sound insulation blankets.
The flight compartment is equipped with adjustable seats for the crew members and with a folding seat for a further occupant.
Various furnishings and equipment are fitted in the flight compartment for the comfort, convenience and safety of the crew.

### A. Description

The flight compartment furnishings consists of :

- crew member's seats
- heat and sound insulation panels
- lining and furnishing panels
- equipment racks
- heating panels.

## 1. General

The flight compartment seating provisions include :

- one captain seat
- one first officer seat
- one third occupant folding seat
- one folding seat.

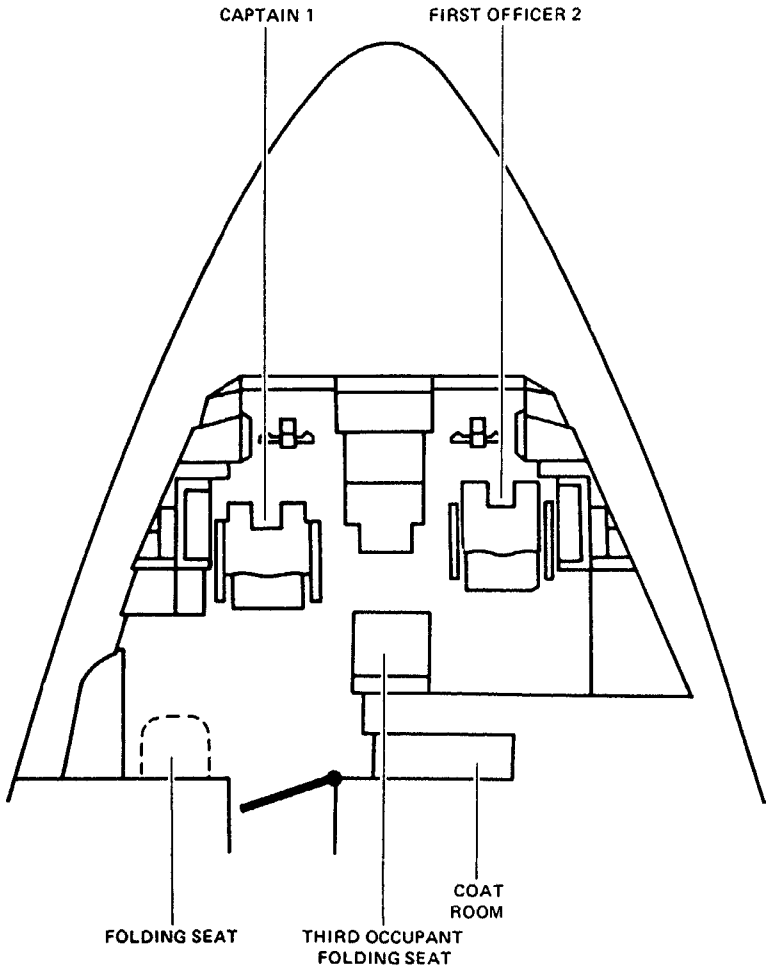
Seat structure is made of aluminum alloy. The seats are equipped with covered seat pan and backrest cushions and with a seat belt.

They can move on tracks attached to the flight compartment floor, except for the third folding seat which is attached to the Right rear bulkhead of the flight compartment.

## 2. Component Location

(Ref. Fig. 001)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF. |
|---|---|---|---|---|---|
| 4MS | CAPTAIN SEAT | | 210 | | 25-11-11 |
| 5MS | FIRST OFFICER SEAT | | 210 | | 25-11-12 |
| 6MS | THIRD OCCUPANT FOLDING SEAT | | 210 | | 25-11-13 |
| | FOLDING SEAT | | 210 | | 25-11-15 |

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Flight Compartment Seating Provisions
Figure 001

## 3. Captain and First Officer seats

### A. Description

(Ref. Fig. 002)

(1)General presentation

The pilots' seats are installed on a base secured to the flight compartment floor.

The seat pan/backrest assembly moves longitudinally and vertically. In addition, when the seat is pushed fully aft, it moves laterally towards the console to increase the space between the center pedestal and the seat in order to facilitate egress of the seat occupant. This position is called "Stowage position".

(2)Controls

The seats are equipped with manual controls allowing the seat pan/backrest assembly to be unlocked to position the seat in different configurations. Electrical controls are also mounted. The controls consist of two electrically operated gear motors (one for each main direction) controlled from their respective spring loaded toggle switches. The output from the gear motors is overridden by manual controls. Additional manual controls are provided to adjust the position of the backrest, the thighrest and the lumbar rest. All the controls are easily accessible and identifiable by their shape, enabling the seat occupant to adjust the seat to the desired position.

(3)Equipment

The backrest is designed to house a literature pocket and a life vest in a stowage compartment closed by means of velcro bands. A lumbar rest, adjustable in the vertical and horizontal directions is installed to provide maximum comfort.

The adjustable armrests are hinged to the backrest and furthermore the inboard armrest can be stowed vertically behind the backrest. The safety harness consists of 4 or 5 straps (depending on airline request) and an inertia reel controlled from a lever located behind the seat. This lever allows the inertia reel to be locked or unlocked.

Two indicators, one for horizontal and one for vertical displacement, show the seat occupant the actual position of the seat.

The foam cushions have been designed to ensure maximum comfort to the seat occupant.

NOTE : The Captain and First Officer seats are symmetrical and their operation is identical.

### B. Operation

(1)Vertical travel

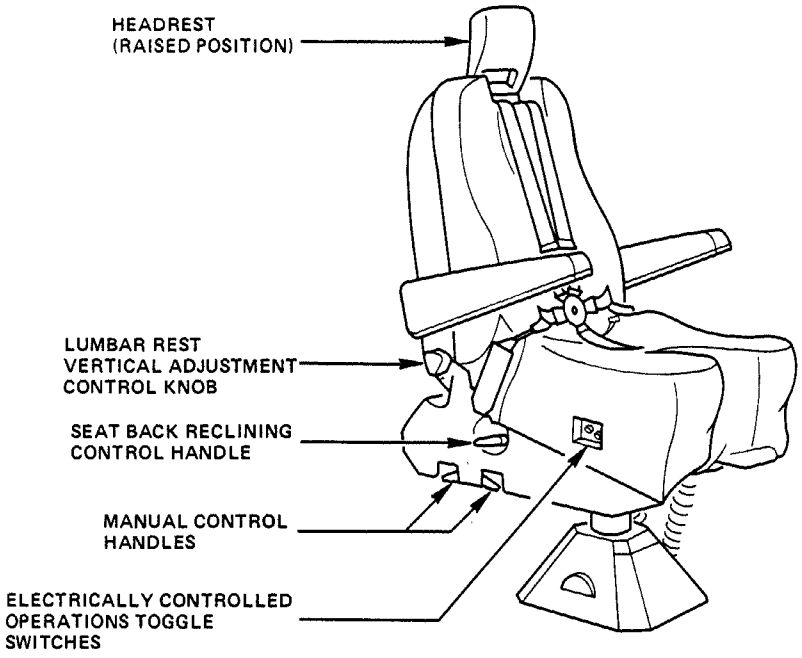
(a)Electrical control (Ref. Fig. 003, 004)

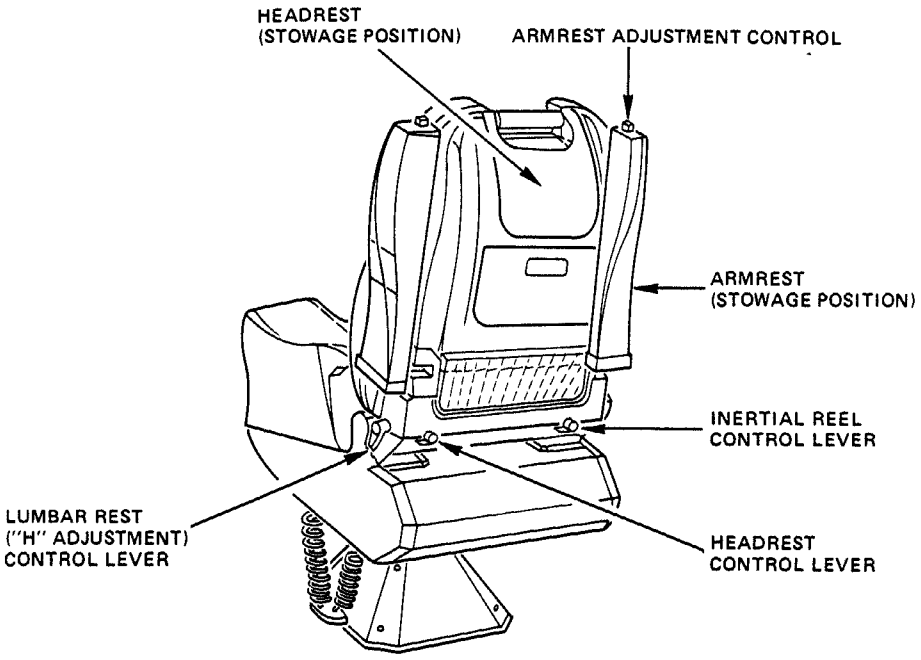
Provided that electrical power is available the control switch (S7) is to be placed in the UP or DOWN position until the seat reaches the desired position.

UP and DOWN movements are limited by limit switches (S2 - S1) and stops.

Locking of the seat pan/backrest assembly in the vertical direction is ensured by the gear motor.

(b)Manual control (Ref. Fig. 005)

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Seat - Description
Figure 002

1 Up travel
To move the seat in the up direction the control handle engraved V located on the inboard side of the seat pan has to be pulled upwards in order to unlock the seat. Then by holding off the load on the seat pan adjust the seat to the desired position and release the handle. Weight compensation is ensured by an actuator installed in the seat base. (A grasp handle is provided above each pilot's station).

2 Down travel
With the occupant seated, handle V is operated in order to unlock the seat. The weight of the user is sufficient to lower the seat which is locked by releasing the handle.
Note that down travel is slowed down by means of the actuator.

(2)Horizontal travel

(a)Electrical control (Ref. Fig. 003, 004)
Operation of the control switch (S8) supplies power to the gear motor (X4) until the forward or aft limits are reached (limit switches S5 and S4).
Note that the seat can be power actuated up to the stowage position.

(b)Manual control (Ref. Fig. 005)
To move the seat in either direction the control handle marked H has to be operated upwards in order to unlock the seat. The user can adjust the seat to the desired position.
Releasing the handle will lock the seat pan/backrest assembly in position.

(3)Backrest adjustment (Ref. Fig. 006)
The backrest position can be adjusted within the limits (7° - 34°) by operating the handle engraved R located on the inboard side of the seat. Pulling the handle will unlock the mechanism. The backrest will be locked in the desired position by releasing the handle.

(4)Adjustable lumbarrest (Ref. Fig. 006)
The lumbarrest which consists of a spring loaded flap hinged on the top can be adjusted in horizontal and vertical positions.
The triangular knob located on the inboard side of the seat provides vertical adjustment when rotated in the desired direction.
Continuous horizontal adjustment of the lumbar rest is possible by lifting the lever located on the outboard side of the seat.
The lever must be released when the optimum position is obtained.

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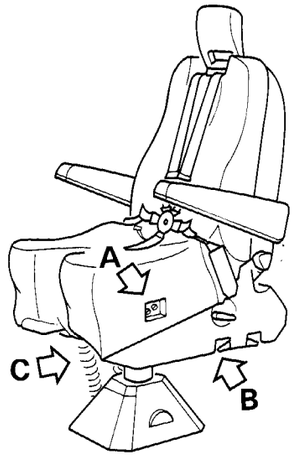


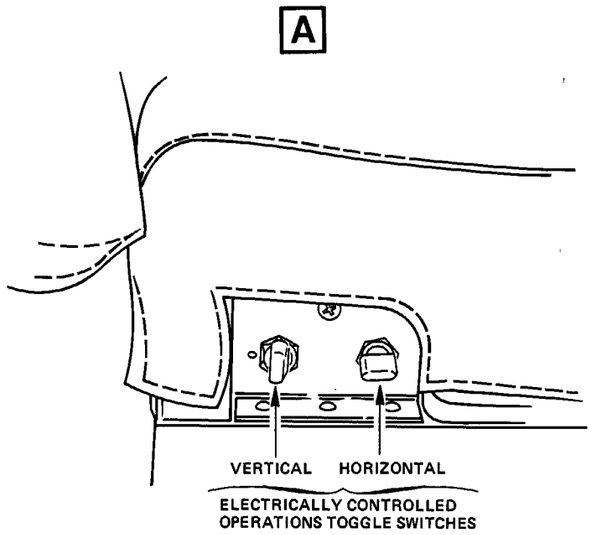


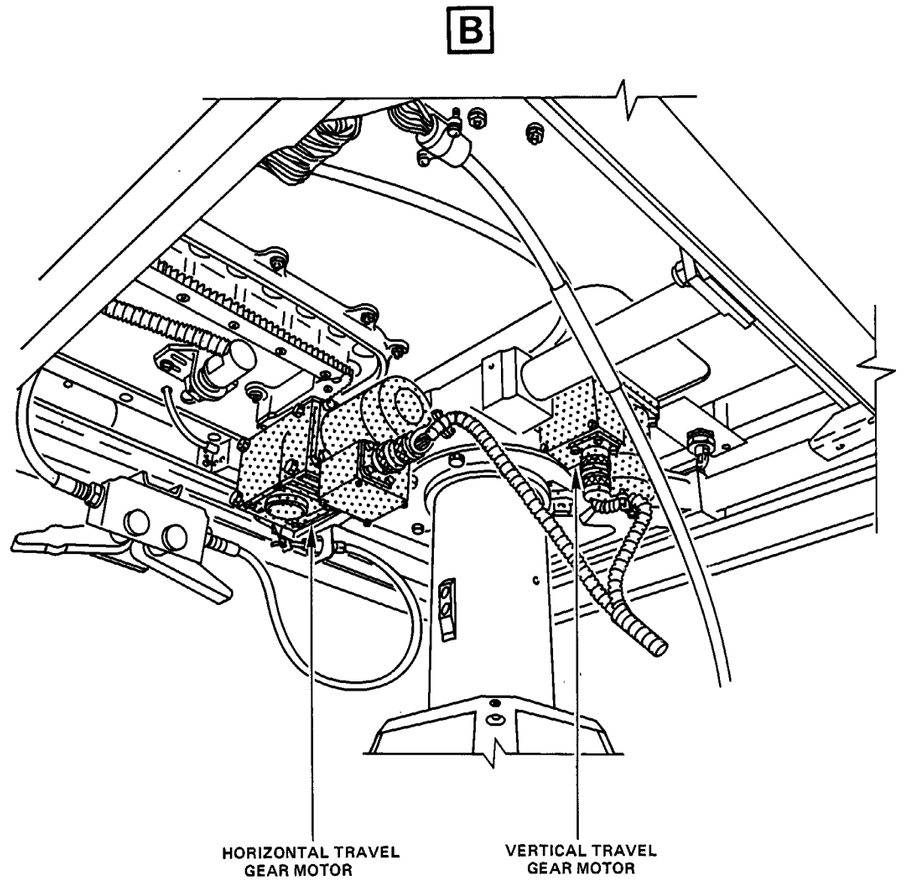


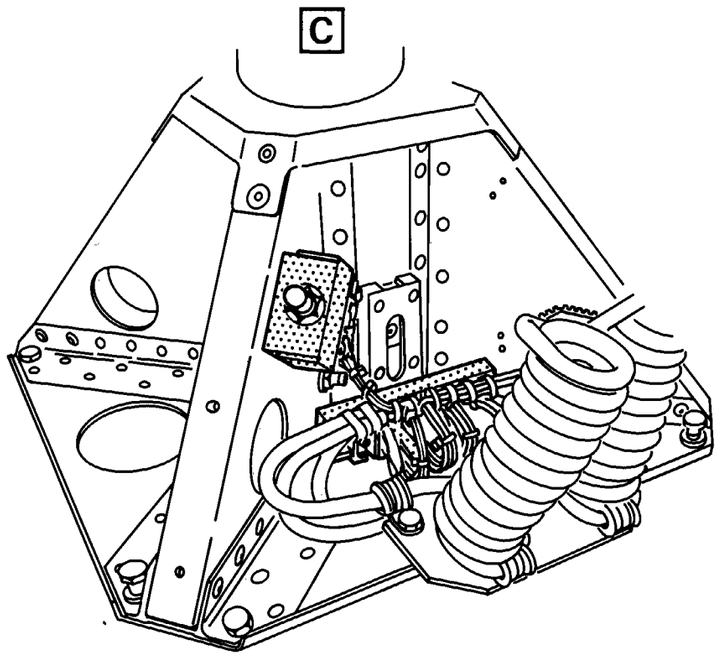


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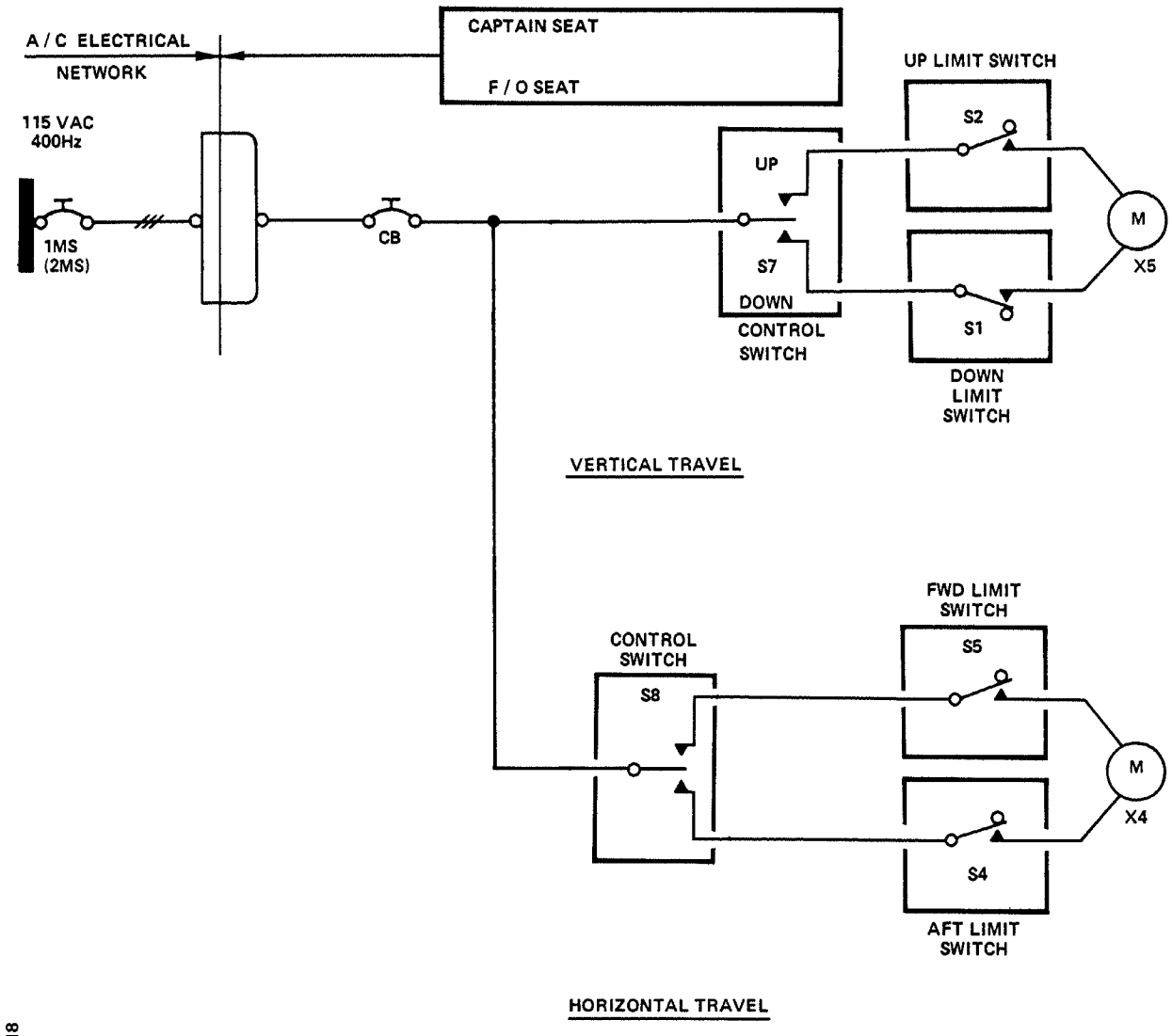
Vertical and Horizontal Travel - Electrical Controls
Figure 003

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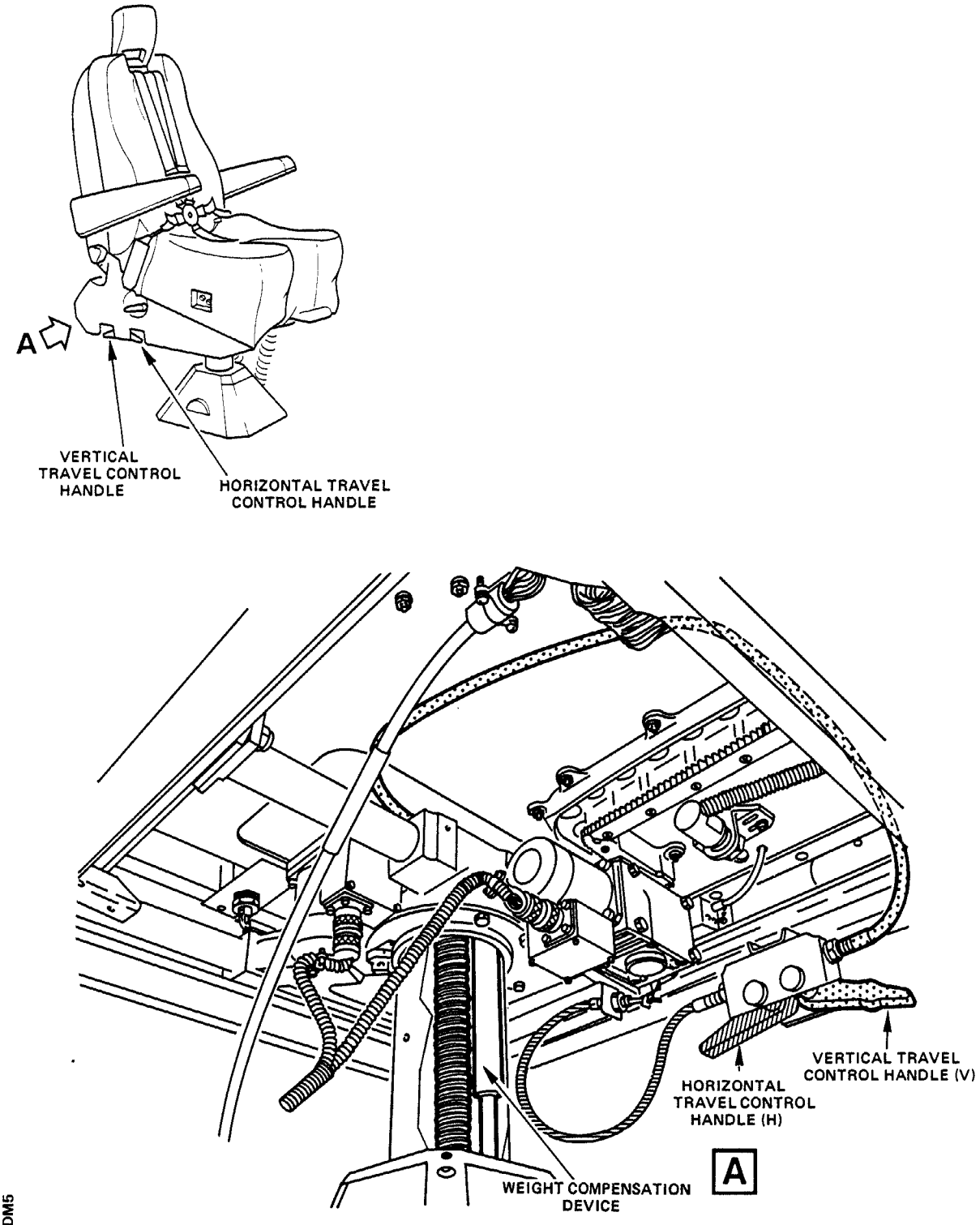
Electrical Controls - Schematic
Figure 004

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Vertical and Horizontal Travel - Manual Controls
Figure 005

(5)Armrest adjustment (Ref. Fig. 006)
Armrests can be raised in the vertical position. In addition, the armrest can be stowed vertically behind the backrest.
Within the adjustment limits lowering of the armrest is obtained by pressing the control knob whatever the backrest position.

(6)Adjustable thigh rests (Ref. Fig. 006)
The thigh rests are adjustable by pressure for an optimum comfort of the occupant.

(7)Safety harness (Ref. Fig. 006)
The straps automatically click in the buckle one after the other in any order.
All the straps are released by turning either way. Shoulder straps can be released separately by pressing the auxiliary control located on top of the buckle.
The operation is identical whatever the type of the harness (adjustable or not).
The inertia reel can be locked or unlocked from a control lever located behind the backrest on the inner side. To lock the mechanism the lever must be in down position.
Raising the lever will unlock the inertia reel.

C. Technical Data

| | |
|---|---|
| - Height (max.) | 1171.7mm (46.13 in.) |
| - Max. floor projection : | |
| . longitudinal | 975.4 mm (38.4 in.) |
| . lateral | 602 mm (23.7 in.) |
| - Vertical travel adjustment | 160 mm (6.3 in.) |
| - Horizontal travel adjustment | |
| . longitudinal | 177.8 mm (7 in.) |
| . lateral (end of longitudinal travel) | 101.6 mm (4 in.) |
| - Backrest recline | 27° |
| - Backrest (lumbar rest adjustment) Vertical | 65 mm (2.56 in.) |
| Horizontal | 35 mm (1.38 in.) |
| - Seat bottom (adjustable thigh rests) | |
| - Armrest adjustment | 10° Up 13° Down |
| - Electrical power supply 115/200V 400 Hz 3 Phase | |

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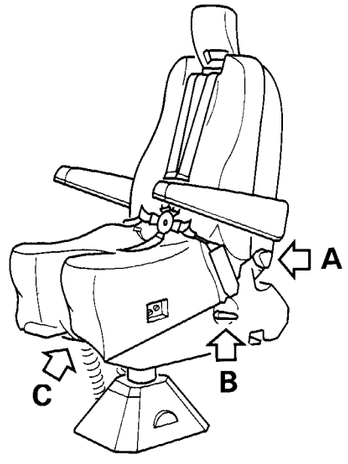


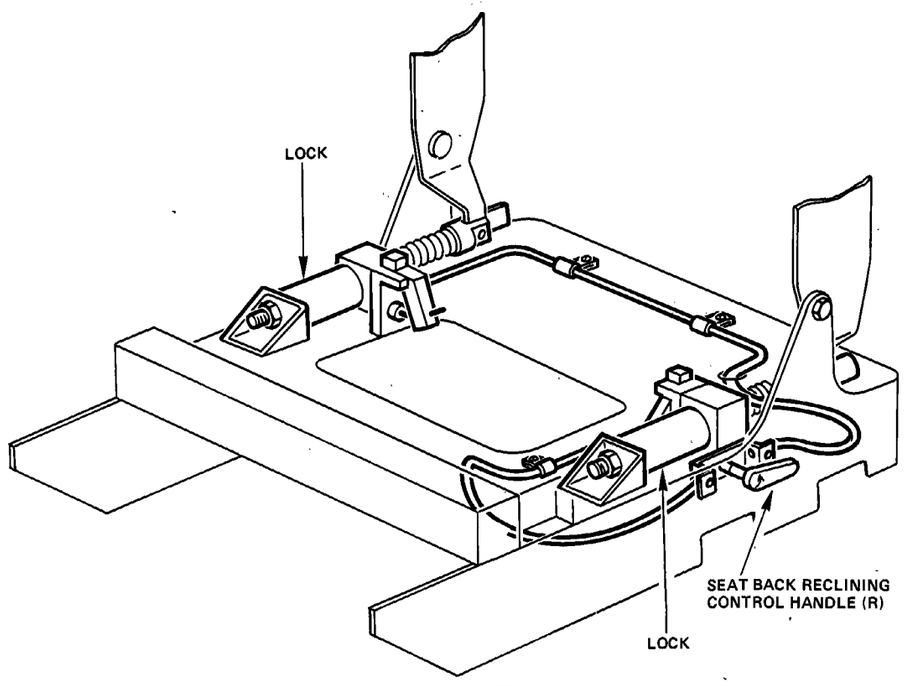


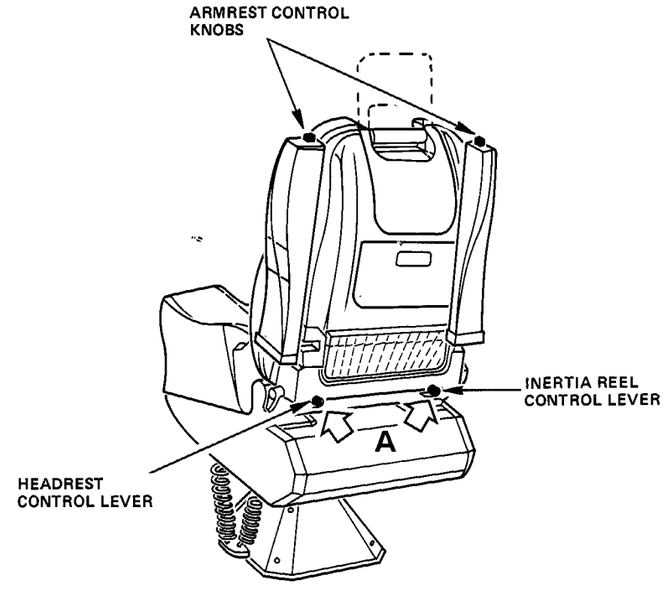


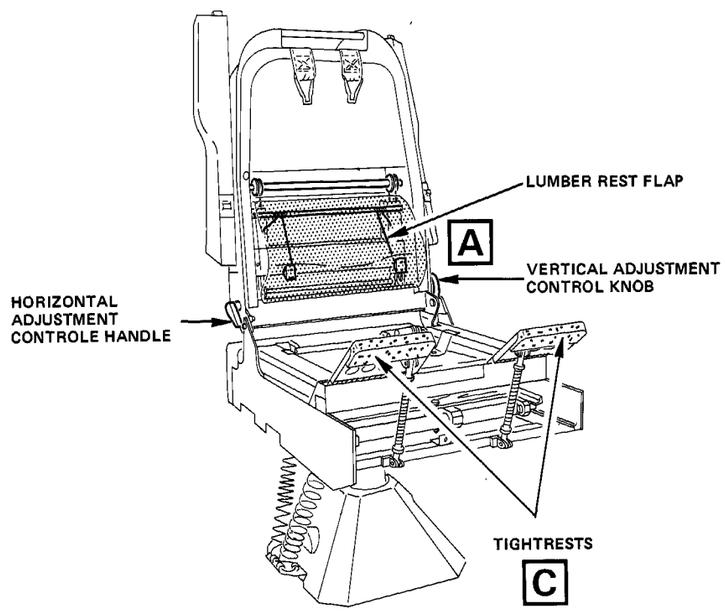


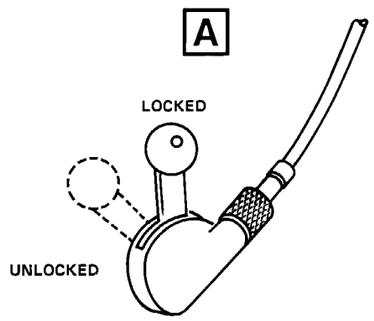


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Seat - Miscellaneous Manual Controls
Figure 006

4. Third Occupant Folding Seat

A. Description
(Ref. Fig. 007)
(1)General
The seat consists of :
- a fixed part : the mounting base and backrest
- a pan : which can be folded against the backrest
The mounting base consists of a base plate protecting two stowage boxes (for oxygen mask and smoke goggles).
The backrest is made of a welded tube structure to which the harness, the backrest and the armrests are secured.
The seat is secured by means of four pins easily removable from the floor fittings. The lower part of the mounting base serves as a stowage box for the oxygen mask and smoke goggles.
(a)Headrest
Reclinable forward down to a position parallel with the backrest so as to facilitate work on aft panel.
(b)Folding Pan
It returns to the stowed position, against the backrest, under the action of an actuator.
(c)Safety Harness
The straps automatically click in the buckle one after the other in any order.
All the straps are released by turning either way. Shoulder straps can be separately released by pressing the auxiliary located on top of the buckle.
The inertia reel can be locked or unlocked from a control handle located down the backrest on the left side. To lock the mechanism the handle must be in the down position.
Raising the handle unlocks the inertial reel.

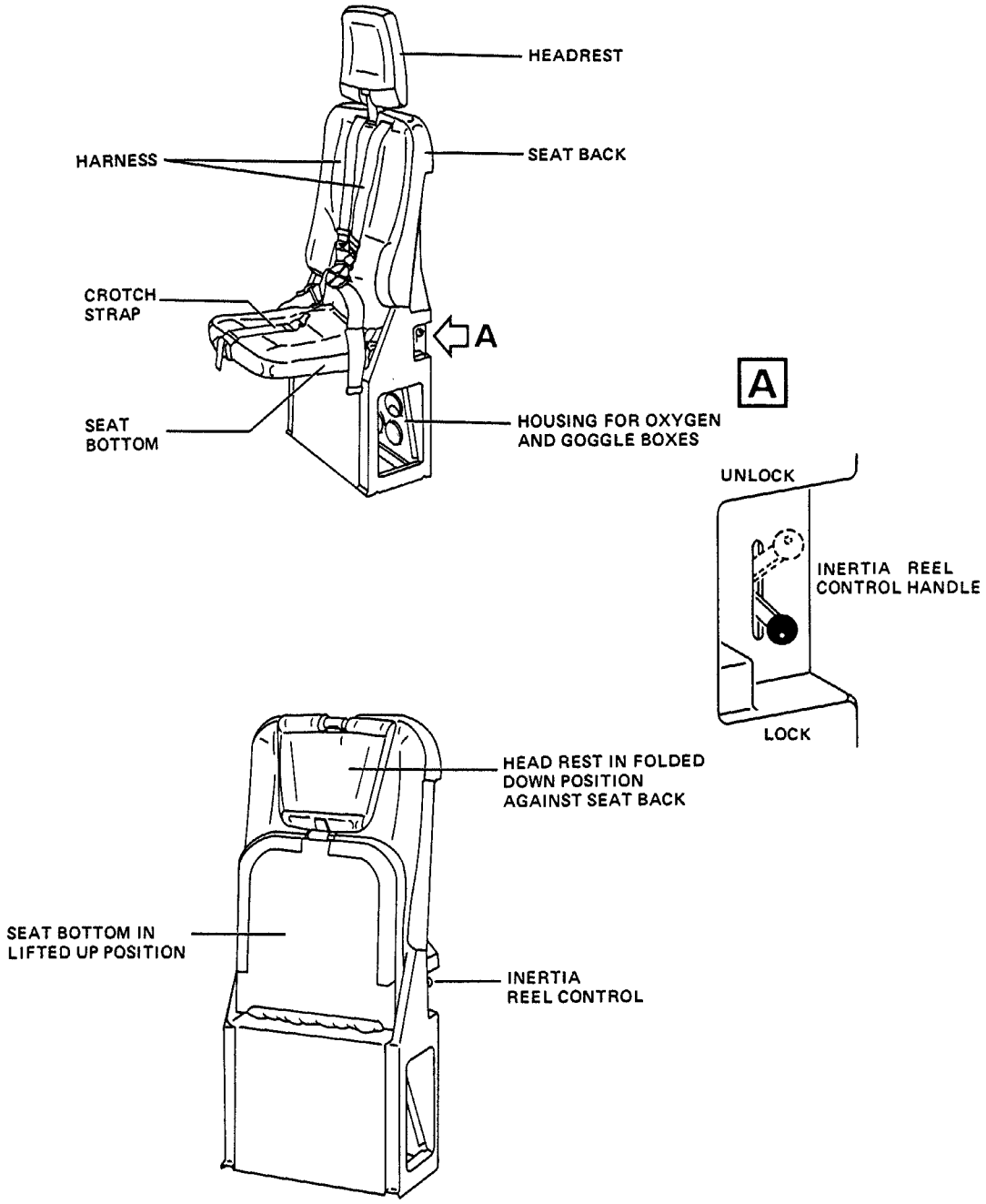
5. Folding Seat

R **ON A/C 001-100,

A. Description and Operation
When the lock is pressed, it releases the folding-bottom section from its stowed position against the bulkhead. The bottom section is then in a horizontal position.

R **ON A/C 101-200,

A. Description and Operation
(1)General
The seat consists of :
- a fixed part : the headrest
- two moving parts : the backrest and pan.
(a)Headrest

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Third Occupant Folding Seat
Figure 007

It is fixed to the structure by means of two screws ; a recess is provided in the structure for backrest (stowage position) and two recesses serve for passage of harnesses.

(b)Backrest

It has two position :

- a stowage position in which the back rest upper part is housed, behing the headrest.
- an in-service position obtained by lowering the backrest.

(c)Pan

It has two positions :

- a stowage position along the partition.
- an in-service position (horizontal position).

In this position, the fourth occupant can move forwards or backwards by operating the locking handle located under the seat pan.

(d)Safety harness

The straps automatically click in the buckle one after the other in any order.

All the straps are released by turning either way.

Shoulder straps can be separately released by pressing the auxiliary control located on top of the backle.

The inertia reel can be locked or unlocked from a control handle located down the backrest on the left side. To lock the mechanism the handle must be in down position.

Raising the handle unlocks the inertia reel.

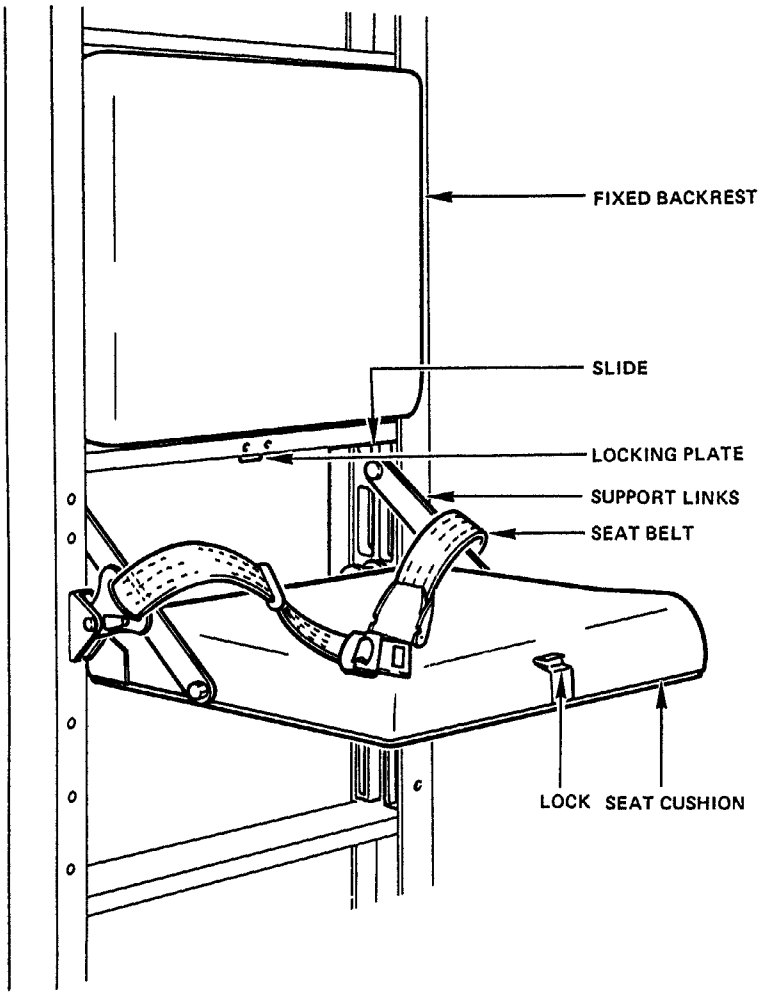
R **ON A/C 001-100,

(Ref. Fig. 008)

R **ON A/C 101-200,

(Ref. Fig. 009)

(e)A cushion is installed on furnishing panels at level of folding seat headrest and backrest, to improve fourth occupant comfort.

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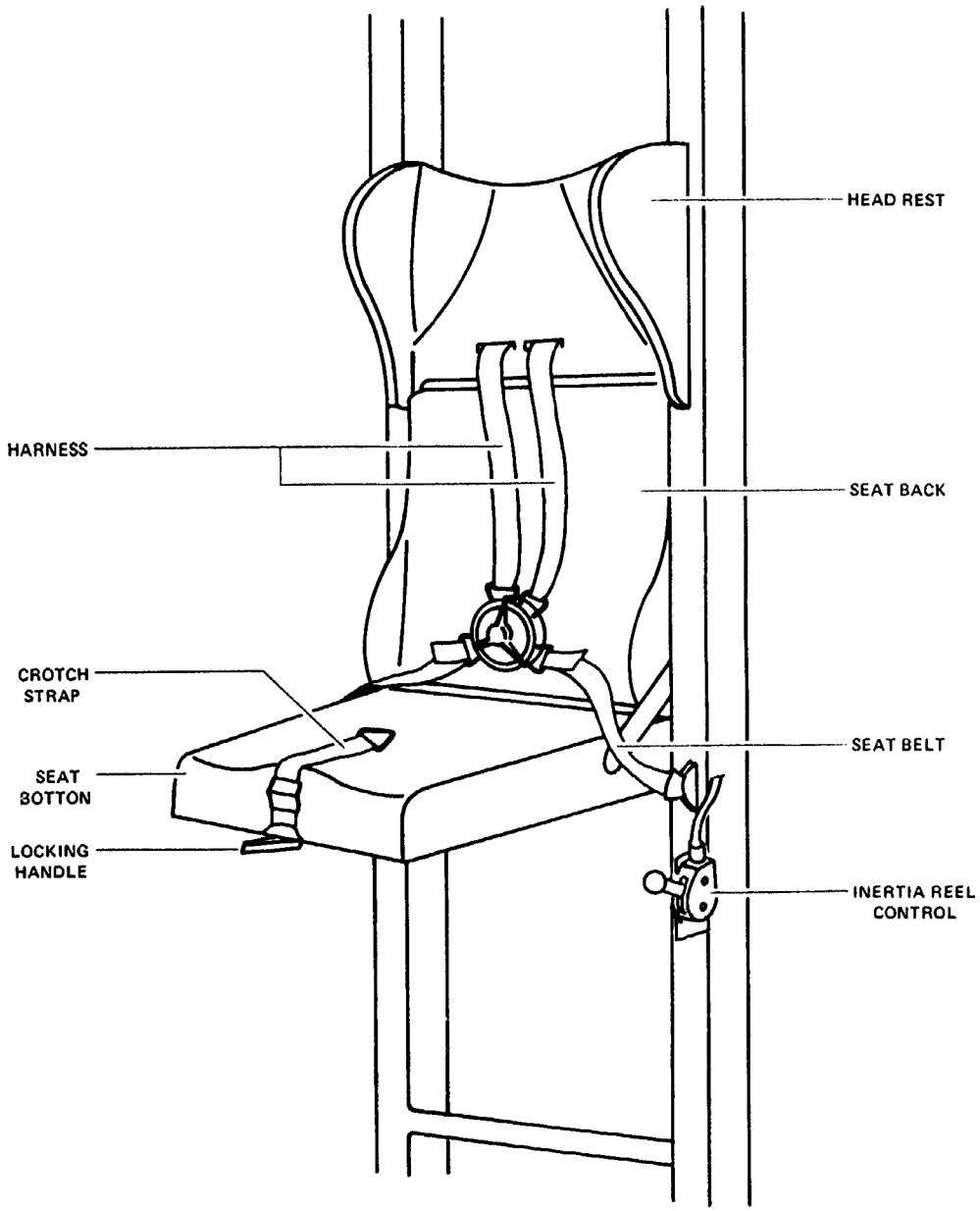
Folding Seat
Figure 008

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Folding Seat
Figure 009

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Access Platforms 4.5 m (14 ft. 9 in.) |
| C. | Protective Covers |
| R D. Material No. 08-007 | Bonding and Adhesive Compound (Ref. 20-31-00) |
| Referenced Procedures | |
| - 25-11-11, P. Block 501 | Captain Seat |
| - 25-11-61, P. Block 401 | Cushions - Seat, Captain/First Officer |
| - 25-11-63, P. Block 401 | Safety Harness - Seat, Captain/First Officer |

2. Procedure
(Ref. Fig. 401)

NOTE : Two procedures are possible to remove/install Captain seat from/in flight compartment :
- Removal/Installation of Captain Seat Through Sliding Side Window
- Removal/Installation of Captain Seat Through Flight Compartment Door.

A. Removal/Installation of Captain Seat Through Sliding Side Window

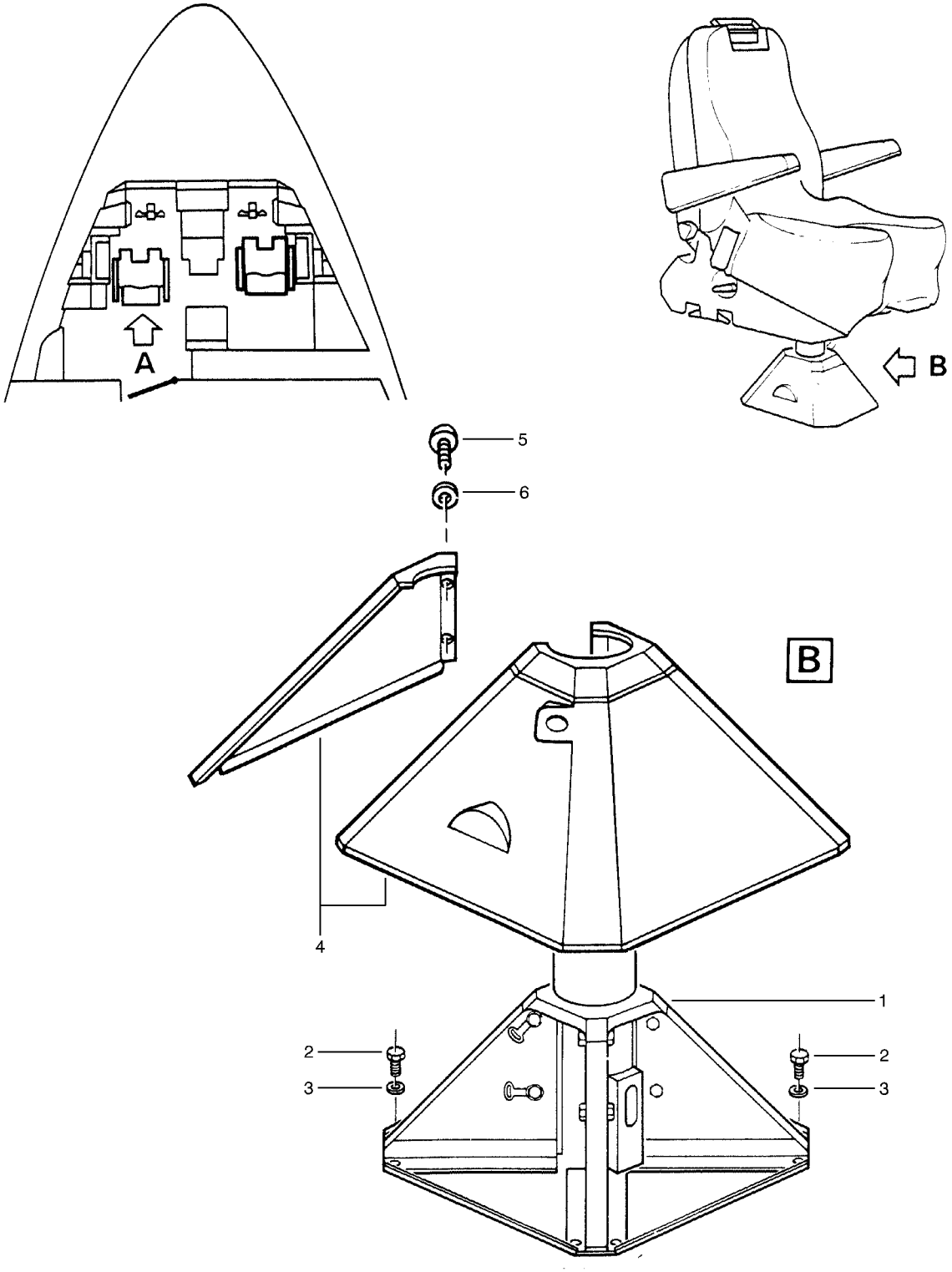
CAUTION : BEFORE YOU MOVE CAPTAIN SEAT THROUGH SLIDING SIDE WINDOW, PUT PROTECTIVE COVERS ON THE FUSELAGE AND ON THE SLIDING SIDE WINDOW TO PREVENT DAMAGE.

(1)Job Set-Up
(a)Position access platforms.
(b)Open, safety and tag the following circuit breaker :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | SEATS/CAPT | 1MS | 326/J71 |

(2)Removal
(a)Move Captain seat to the maximum down position.
(b)Disconnect electrical connector accessible through avionics compartment.
(c)Remove screws (5) attaching base cover (4). Remove and retain washers (6) and remove base cover.
(d)Remove cushions (Ref. 25-11-61, P. Block 401).
R (e)Remove screws (12), washers (11) and bushes (10).
(f)Move backrest to the maximum forward position.
(g)Remove the eight screws (2) securing base (1) to floor. Remove and retain washers (3).
(h)Lift and move Captain seat through sliding side window.
NOTE : Make certain that the base (1) points forward.

(3)Preparation of Replacement Component

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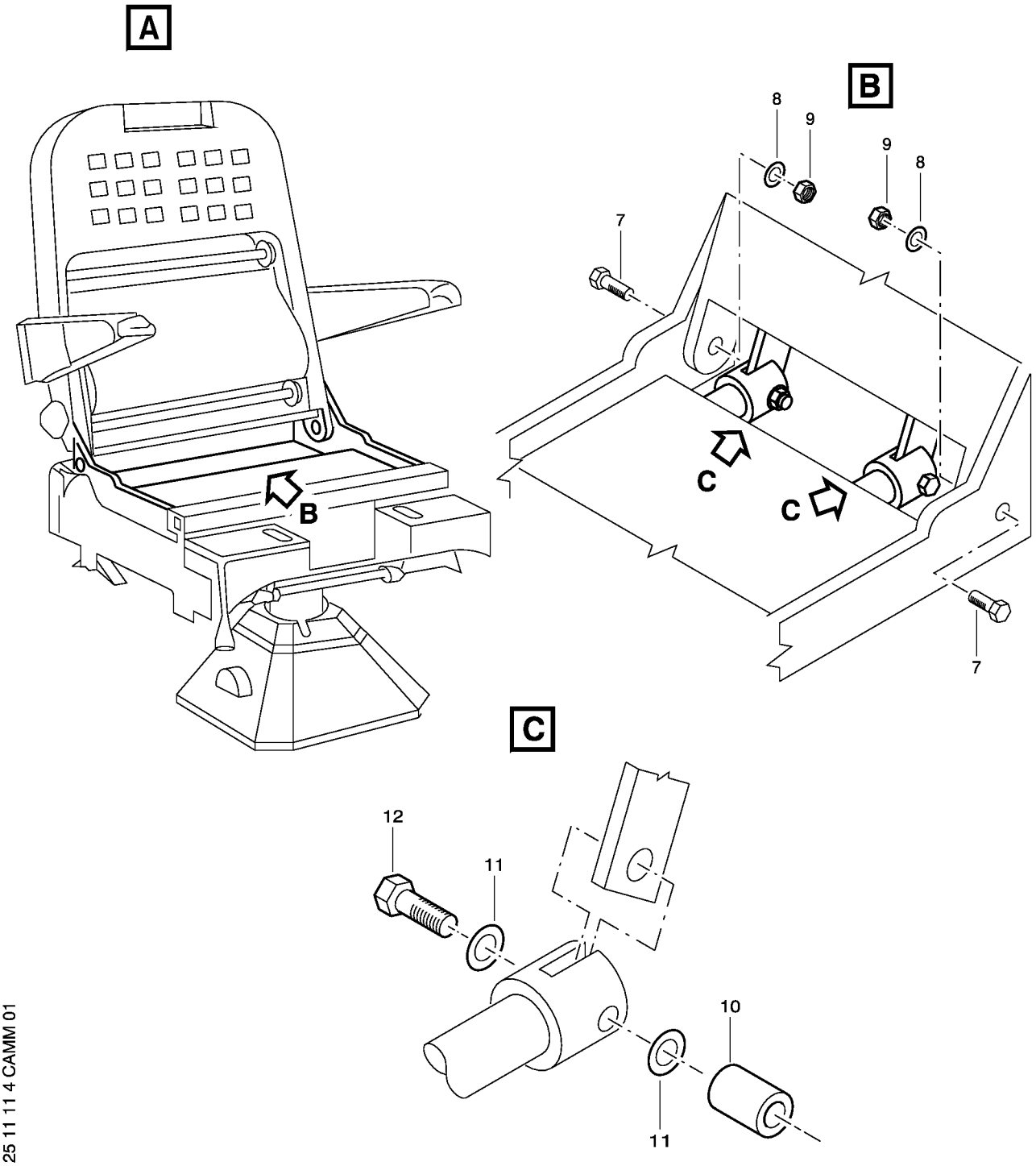
Captain Seat (Sheet 1/2)
Figure 401

R

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Captain Seat (Sheet 2/2)
Figure 401

R

(a)Make certain that metal parts of seat are free from cracks and corrosion.
(b)Check that shoulder harness and cushions are neither cut nor frayed.

(4)Installation
(a)Move Captain seat in flight compartment through sliding side window.
NOTE : Make certain that the base (1) points forward.
(b)Install Captain seat column in its housing.
(c)Position base (1) in relation to attachment holes.
(d)Install the eight screws (2) equipped with washers (3).
(e)Put Captain seat in correct position to permit installation of screws (12).
R (f)Install bushes (10), washers (11) and screws (12).
R (g)Apply bonding and adhesive compound (Material No. 08-007) to
R screws (12).
R (h)Install cushions (Ref. 25-11-61, P. Block 401).
R (j)Install base cover (4) using screws (5) and washers (6).
R (k)Connect electrical connector.

(5)Close-Up
(a)Remove safety clips and tag and close circuit breaker 1MS.
(b)Perform seat operational test (Ref. 25-11-11, P. Block 501).
(c)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(d)Remove access platforms.

B. Removal/Installation of Captain Seat Through Flight Compartment Door

(1)Job Set-up
(a)Position access platform.
(b)Open, safety and tag the following circuit breaker:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | SEATS/CAPT | 1MS | 326/J71 |

(2)Removal
(a)Move Captain seat to the maximum down position.
(b)Disconnect electrical connector accessible through avionics compartment.
(c)Remove screws (5) attaching base cover (4). Remove and retain washers (6) and remove base cover.
(d)Remove cushions (Ref. 25-11-61, P. Block 401).
R (e)Remove screws (12), washers (11) and bushes (10).
(f)Remove abdominal straps (Ref. 25-11-63, P. Block 401).
(g)Remove nuts (9), washers (8) and screws (7).
NOTE : During removal of screws (7), make certain not to cause

damage to flanges of the base structure.
(h)Remove backrest structure from base structure.
(j)Move backrest structure through flight compartment door.
(k)Remove the eight screws (2) securing base (1) to floor.
Remove and retain washers (3).
(l)Lift and move base structure through flight compartment door.
NOTE : Make certain that the base (1) points to maintenance panel.

(3)Preparation of Replacement Component
(a)Make certain that metal parts of seat are free from cracks and corrosion.
(b)Check that shoulder harness and cushions are neither cut nor frayed.

(4)Installation
(a)Move base structure in flight compartment through flight compartment door.
NOTE : Make certain that the base (1) points to maintenance panel.
(b)Install Captain seat column in its housing.
(c)Position base (1) in relation to attachment holes.
(d)Install the eight screws (2) equipped with washers (3).
(e)Move backrest structure in flight compartment through flight compartment door.
(f)Put in position backrest structure on base structure and install screws (7).
NOTE : During installation of screws (7), make certain not to cause damage to flanges of the base structure.
(g)Install washers (8), nuts (9) and tighten nuts (9).
(h)Put Captain seat in correct position to permit installation of screws (12).
R (j)Install bushes (10), washers (11) and screws (12).
R (k)Apply bonding and adhesive compound (Material No. 08-007) to
R screws (12).
R (l)Install abdominal straps (Ref. 25-11-63, P. Block 401).
R (m)Install cushions (Ref. 25-11-61, P. Block 401).
R (n)Install base cover (4) using screws (5) and washers (6).
R (p)Connect electrical connector.

(5)Close-Up
(a)Remove safety clips and tag and close circuit breaker 1MS.
(b)Perform seat operational test (Ref. 25-11-11, P. Block 501).
(c)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(d)Remove access platform.

R CAPTAIN SEAT - ADJUSTMENT/TEST
R

1. Operational Test

A. Manual Operational Test
The purpose of these tests is to make certain that the manual controls on the Captain's seat operates correctly.
(Ref. Fig. 501)

(1)Horizontal movement

| ACTION | RESULT |
|---|---|
| 1. With seat in stowed position, pull up control handle H and push seat fully forwards | - seat must move smoothly. |
| 2. Release control handle H | - seat must lock in this position. |
| 3. Pull up control handle H and push seat rearward | - travel range must be 7 in. (177.8 mm). |
| 4. Release control handle H | - seat must lock in this position. |

(2)Vertical movement

| ACTION | RESULT |
|---|---|
| 1. With seat in down position, pull up control handle V. Raise seat. | - seat must move 6.3 in. (160 mm). |
| 2. Release control handle V | - seat must lock in this position |
| 3. Pull up control handle V and push down seat | - seat must return to down position freely. |
| 4. Raise seat to middle of travel range and release control handle V | - whether the seat is under load or not, it must lock in this position. |
| 5. Return seat to down position. | |

(3)Backrest tilting

| ACTION | RESULT |
|---|---|
| 1. Pull up control handle R located on right side of seat. Press lightly on backrest to tilt it. | - maximum inclination must be 34°. |
| 2. Release control handle R | - backrest must lock in selected position. |

| ACTION | RESULT |
|---|---|
| 3. Pull up control handle R again<br>(4)Forward section tilting | - backrest returns to forward position automatically. |

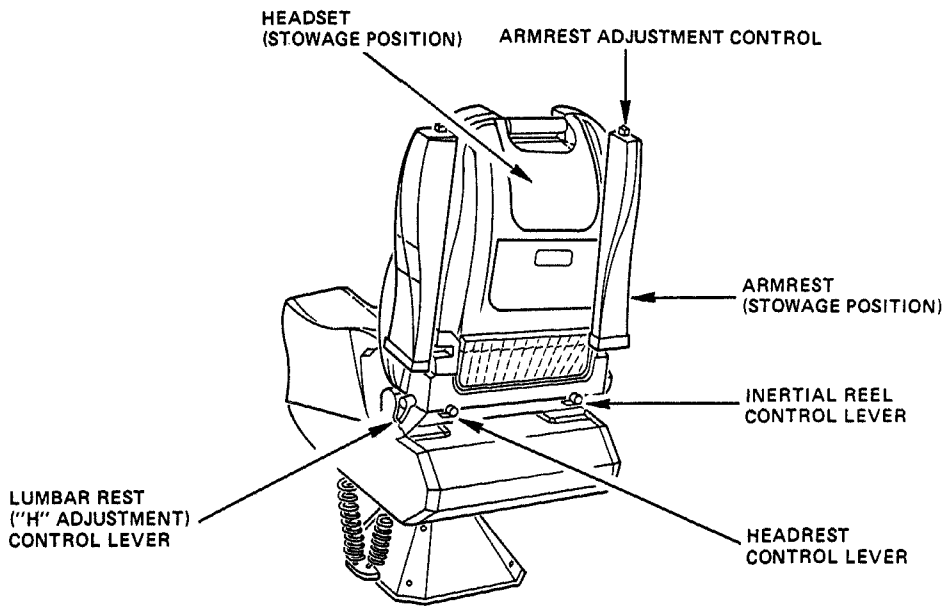
| ACTION | RESULT |
|---|---|
| 1. Pull up control handle<br>Located ar front of seat.<br>Press down on forward section of seat | - forward section must move to selected position. |
| 2.Release control handle<br>(5)Lumbar rest | - forward section of seat must lock in selected position. |

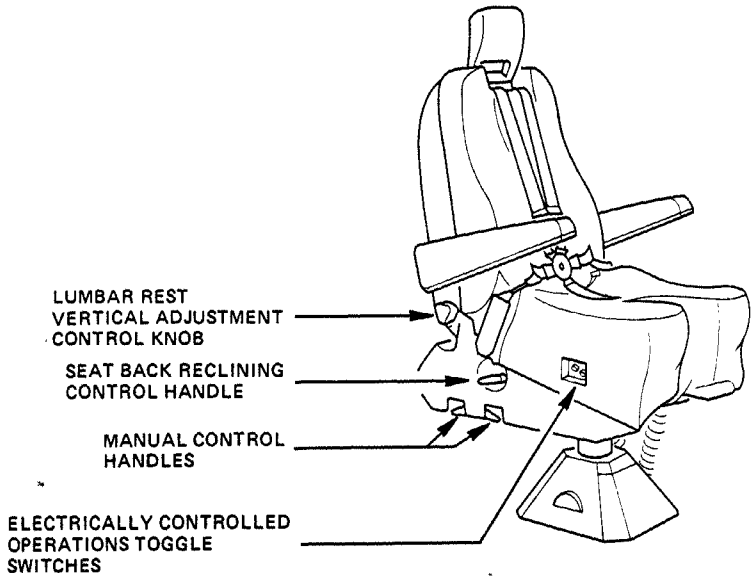
| ACTION | RESULT |
|---|---|
| 1. Turn control knob located on side of seat | - lumbar rest moves to selected vertical position |
| 2. Raise control lever located on opposite side of seat | - lumbar rest moves to selected horizontal position. |
| 3. Release control lever<br>(6)Shoulder harness | - lumbar rest remains in selected position. |

| ACTION | RESULT |
|---|---|
| 1. Push down lever located behind seat. Pull harness gently. | - safety harness must extend easily. |
| 2. Release harness | - it must retract automatically. |
| 3. Pull harness abruptly | - it must not extend. |
| 4. Pull up lever. Pull on harness | - it must not extend. |

B. Electrical Operational Tests
The purpose of these tests is to make certain that the electrical controls on the captain's seat operate correctly.
(1)Equipment and materials

| ITEM | DESIGNATION |
|---|---|
| Referenced Procedure<br>- 24-41-00, P. Block 301 | AC External Power Control |

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Captain Seat Controls
Figure 501

(2)Procedure
(a)Job set-up
- Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- Close circuit breaker 1MS on panel 132VU (line 326/J71).

(b)Test
1 Vertical movement

| ACTION | RESULT |
|---|---|
| 1. On vertical control switch, | |
| - Hold control switch in UP position | - seat must move upwards |
| - Release control switch | - seat must lock in selected position |
| - Hold control switch in DOWN position | - seat must move downwards. |
| - Release switch | - seat must lock in selected position |
| 2. Check of extreme up and down positions by, | |
| - Holding control switch in UP position. Seat moves to its highest position. | - check when the seat reaches its maximum upward position that motor stops and its electrical circuit is shut off. |
| - Holding control switch in DOWN position. Seat moves to its lowest position. | - check when the seat reaches its maximum downward position that motor stops and its electrical circuit is shut off. |

NOTE : In case of maladjustment of the cams or of the microswitches, a mechanical stop ensures stoppage of seat displacement.

2 Horizontal movement

| ACTION | RESULT |
|---|---|
| 1. On horizontal control switch, | |
| - Hold control switch in forward position | - seat moves forwards. |
| - Release control switch | - seat must lock in selected position |
| - Hold control switch in rearward position | - seat moves backwards. |

| ACTION | RESULT |
|---|---|
| - Release control switch | - seat must lock in selected position |
| 2. Check of extreme forward and aft positions by, | |
| - Holding control switch in forward position. Seat moves to maximum forward position. | - check when the seat reaches its maximum forward position that motor stops and its electrical circuit is shut off. |
| - Holding control switch in extreme rearward position. Seat moves to maximum rearward position | - check when the seat reaches its maximum rearward position that motor stops and its electrical circuit is shut off. |

NOTE : In case of maladjustment of the cams of the microswitches, a mechanical stop ensures stoppage of seat displacement.

C. Close-up
(1)Return seat to stowed position.
(2)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

# CAPTAIN SEAT - INSPECTION/CHECK

1. Reason for the Job

A. Visual Inspection of Seat Structure and Seat to Floor Attachment.

B. Check of the Handle Travels (Horizontal and Vertical).

2. Procedure

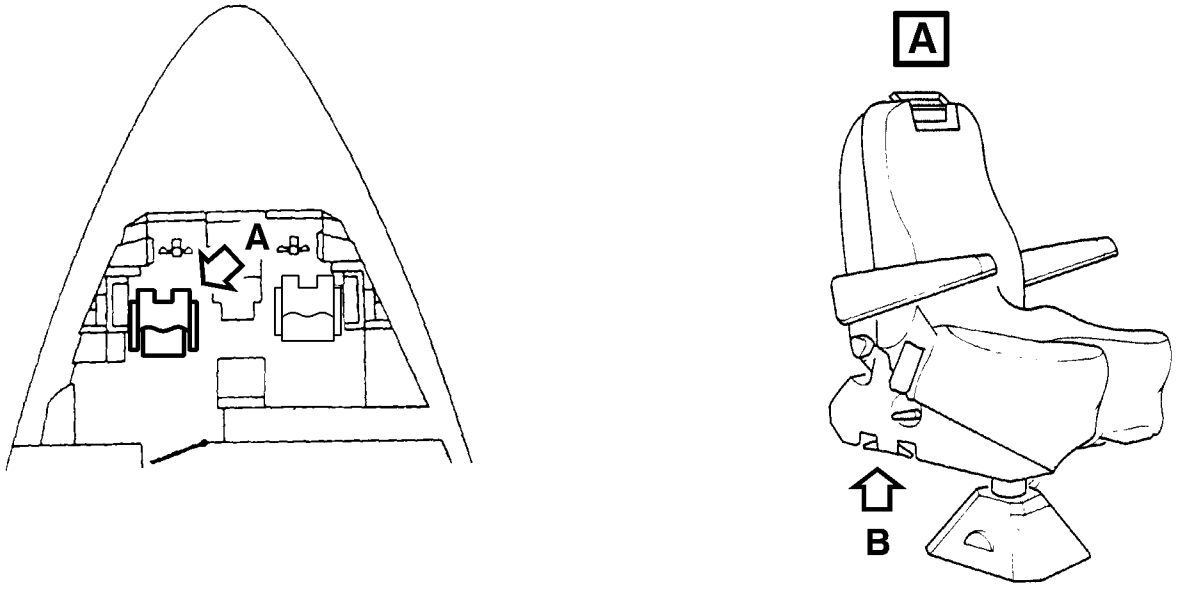
A. Visual Inspection of Seat Structure and Seat to Floor Attachment
(1)Make certain that seat cover fabric is free of tears and fraying.
(2)Check that Velcro tapes still adhere correctly.
(3)Check cushion elasticity.
(4)Make certain that nuts are correctly tightened.
(5)Check that structural parts and supports are neither deformed nor cracked.
(6)Make certain that paint is not cracked.
(7)Make certain that identification plates are legible and correctly attached.
(8)Check condition of welded parts and riveting.
(9)Make certain that seat controls are not subject to excessive play.
(10)Check that shoulder harness is neither worn nor torn.

(11)Not applicable.
(12)Not applicable.
(13)Check that electrical connector and terminal strip are correctly connected.
(14)Make certain that there are no breaks or worn insulation in electrical wiring.
(Ref. Fig. 601)

B. Check of the Handle Travels (Horizontal and vertical)
(1)Equipment and materials

| ITEM | DESIGNATION |
|---|---|
| Referenced Procedures | |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-11-11, P. Block 401 | Captain Seat |

(2)Procedure
(a)Job set-up
1 Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(b)Inspection
NOTE : This procedure includes a check of the operations of the vertical and horizontal (V and H) mechanical control handles.
1 Move the seat to the maximum rearward position and to the maximum




Captain Seat Adjustment
Figure 601

R

R down position.
R 2 Make sure that the control handles H (2) and V (1) turn freely.
R Make sure that there are no points of friction.
R 3 Align the B axis with the handle axis. The handle is in the normal
R position.
R NOTE : Distance A corresponds to the actuator in the unlocked
R position, from 20 to 25 mm (0.787 in. to 0.984 in.).
R Distance B corresponds to the actuator in the locked position,
R 50 mm (1.968 in.) maximum.
R 4 Make sure that the measurement corresponds to the distance B.
R 5 Move the handle from the B axis to the A axis. Make sure that the
R handle travel does not cause disengagement of the seat locking
R mechanism. The handle is in the unlocking position.
R 6 Make sure that the measurement corresponds to the distance A.
R 7 Release the handle. Make sure that the handle moves back to the
R normal position.
R (c)Close-up
R 1 De-energize the aircraft electrical network (Ref. 24-41-00,
R P. Block 301).

# CAPTAIN SEAT - DEACTIVATION/REACTIVATION

REF. MMEL Sect. 1-25, item 1A2

CAUTION : THIS PROCEDURE MUST BE USED ACCORDING TO THE REQUIREMENTS OF THE MMEL.

## 1. Deactivation

### A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Circuit Breaker Safety Clips |
| Referenced Procedure<br>- TSM 25-11-00 Block 3A | Electrical Control Fault on Flight Compartment Seat |

### B. Procedure

(1)Deactivation

(a)If adjustment system electrical control of Captain seat is inoperative :

- Open, safety and tag the following circuit breaker :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | SEATS/CAPT | 1MS | 326/J71 |

## 2. Reactivation

### A. Procedure

(1)Reactivation

(a)Troubleshoot system (Ref. TSM 25-11-00).

(b)Remove safety clip and tag and close circuit breaker 1MS.

## 3. Close-Up

A. Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Access Platforms 4.5 m (14 ft. 9 in.) |
| C. | Protective Covers |
| R D. Material No. 08-007 | Bonding and Adhesive Compound (Ref. 20-31-00) |
| Referenced Procedures | |
| - 25-11-12, P. Block 501 | First Officer Seat |
| - 25-11-61, P. Block 401 | Cushions - Seat, Captain/First Officer |
| - 25-11-63, P. Block 401 | Safety Harness - Seat, Captain/First Officer |

2. Procedure
(Ref. Fig. 401)

NOTE : Two procedures are possible to remove/install First Officer seat from/in flight compartment:
- Removal/Installation of First Officer Seat Through Sliding Side Window
- Removal/Installation of First Officer Seat Through Flight Compartment Door.

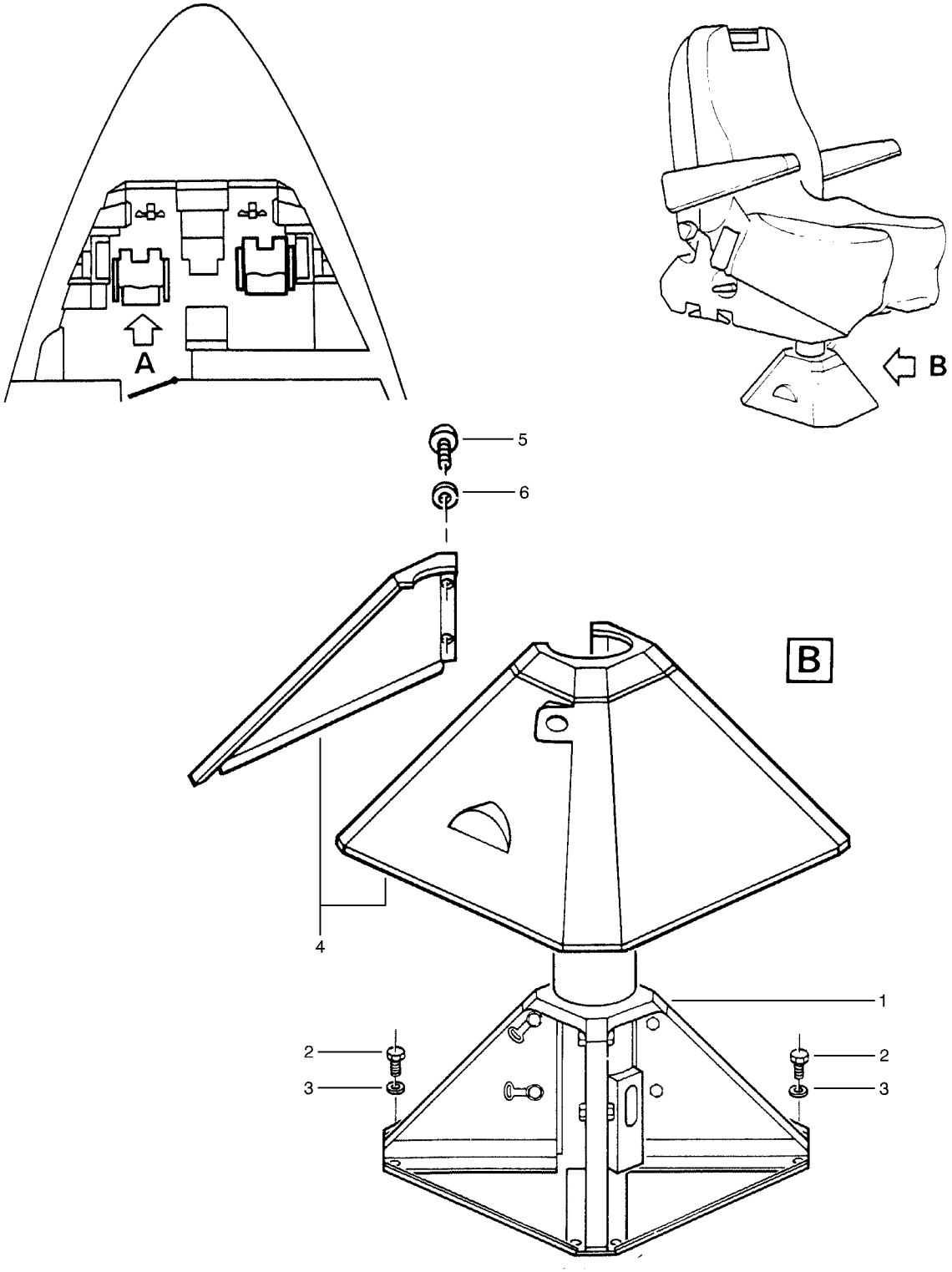
A. Removal/Installation of First Officer Seat Through Sliding Side Window

CAUTION : BEFORE YOU MOVE FIRST OFFICER SEAT THROUGH SLIDING SIDE WINDOW, PUT PROTECTIVE COVERS ON THE FUSELAGE AND ON THE SLIDING SIDE WINDOW TO PREVENT DAMAGE.

(1)Job Set-Up
(a)Position access platforms.
(b)Open, safety and tag the following circuit breaker :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | SEATS/F/O | 2MS | 326/J74 |

(2)Removal
(a)Move First Officer seat to the maximum down position.
(b)Disconnect electrical connector accessible through avionics compartment.
(c)Remove screws (5) attaching base cover (4). Remove and retain washers (6) and remove base cover.
(d)Remove cushions (Ref. 25-11-61, P. Block 401).
R (e)Remove screws (12), washers (11) and bushes (10).
(f)Move backrest to the maximum forward position.
(g)Remove the eight screws (2) securing base (1) to floor. Remove and retain washers (3).
(h)Lift and move First Officer seat through sliding side window.
NOTE : Make certain that the base (1) points forward.

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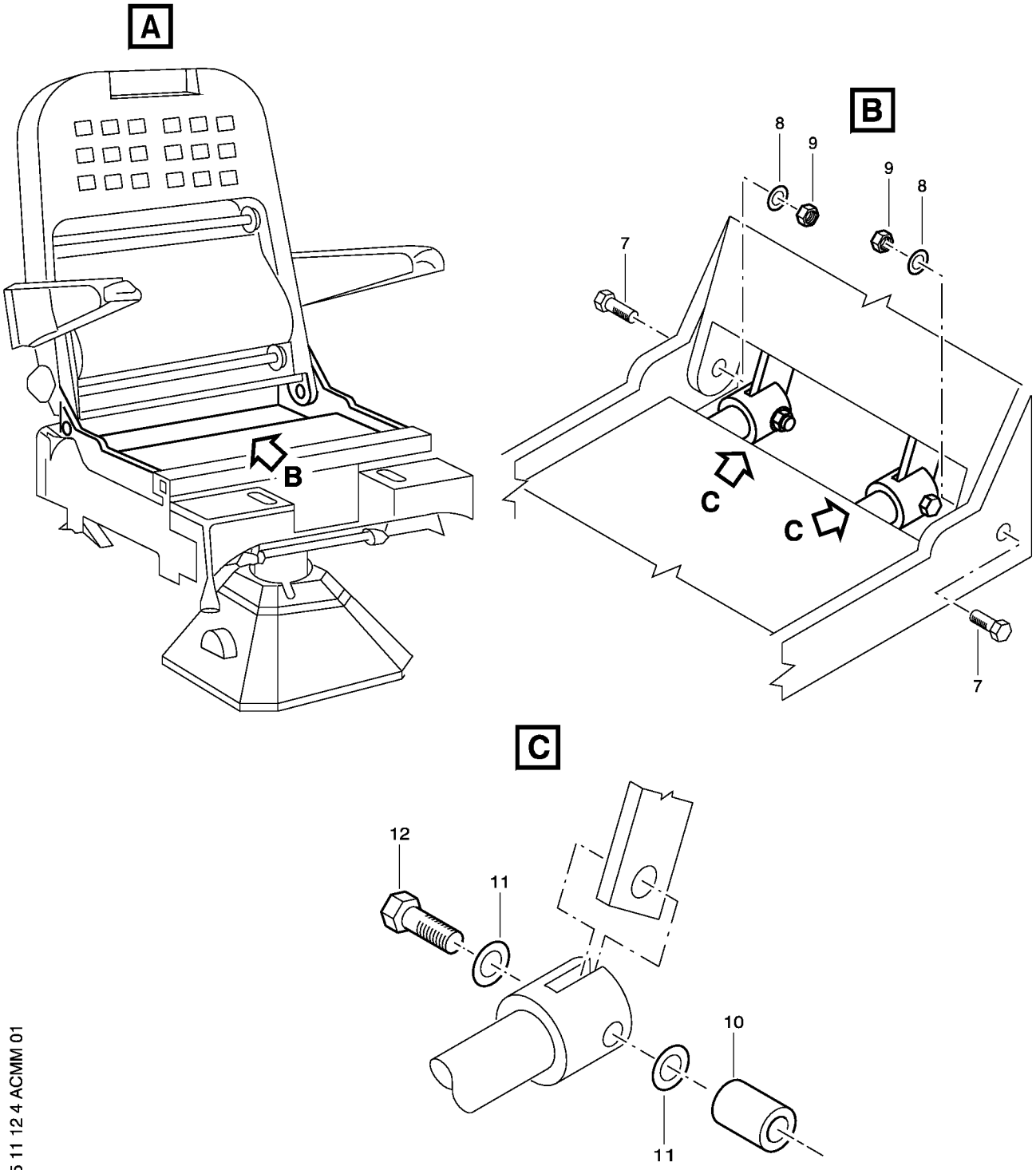
First Officer Seat (Sheet 1/2)
Figure 401

R

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First Officer Seat (Sheet 2/2)
Figure 401

R

(3)Preparation of Replacement Component
(a)Make certain that metal parts of seat are free from cracks and corrosion.
(b)Check that shoulder harness and cushions are neither cut nor frayed.

(4)Installation
(a)Move First Officer seat in flight compartment through sliding side window.
NOTE : Make certain that the base (1) points forward.
(b)Install First Officer seat column in its housing.
(c)Position base (1) in relation to attachment holes.
(d)Install the eight screws (2) equipped with washers (3).
(e)Put First Officer seat in correct position to permit installation of screws (12).
R (f)Install bushes (10), washers (11) and screws (12).
R (g)Apply bonding and adhesive compound (Material No. 08-007) to
R screws (12).
R (h)Install cushions (Ref. 25-11-61, P. Block 401).
R (j)Install base cover (4) using screws (5) and washers (6).
R (k)Connect electrical connector.

(5)Close-Up
(a)Remove safety clips and tag and close circuit breaker 2MS.
(b)Perform seat operational test (Ref. 25-11-11, P. Block 501).
(c)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(d)Remove access platforms.

B. Removal/Installation of First Officer Seat Through Flight Compartment Door

(1)Job Set-up
(a)Position access platform.
(b)Open, safety and tag the following circuit breaker:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | SEATS/F/O | 2MS | 326/J74 |

(2)Removal
(a)Move First Officer seat to the maximum down position.
(b)Disconnect electrical connector accessible through avionics compartment.
(c)Remove screws (5) attaching base cover (4). Remove and retain washers (6) and remove base cover.
(d)Remove cushions (Ref. 25-11-61, P. Block 401).
R (e)Remove screws (12), washers (11) and bushes (10).
(f)Remove abdominal straps (Ref. 25-11-63, P. Block 401).

(g)Remove nuts (9), washers (8) and screws (7).
NOTE : During removal of screws (7), make certain not to cause damage to flanges of the base structure.
(h)Remove backrest structure from base structure.
(j)Move backrest structure through flight compartment door.
(k)Remove the eight screws (2) securing base (1) to floor. Remove and retain washers (3).
(l)Lift and move base structure through flight compartment door.
NOTE : Make certain that the base (1) points to maintenance panel.

(3)Preparation of Replacement Component
(a)Make certain that metal parts of seat are free from cracks and corrosion.
(b)Check that shoulder harness and cushions are neither cut nor frayed.

(4)Installation
(a)Move base structure in flight compartment through flight compartment door.
NOTE : Make certain that the base (1) points to maintenance panel.
(b)Install First Officer seat column in its housing.
(c)Position base (1) in relation to attachment holes.
(d)Install the eight screws (2) equipped with washers (3).
(e)Move backrest structure in flight compartment through flight compartment door.
(f)Put in position backrest structure on base structure and install screws (7).
NOTE : During installation of screws (7), make certain not to cause damage to flanges of the base structure.
(g)Install washers (8), nuts (9) and tighten nuts (9).
(h)Put First Officer seat in correct position to permit installation of screws (12).
R (j)Install bushes (10), washers (11) and screws (12).
R (k)Apply bonding and adhesive compound (Material No. 08-007) to
R screws (12).
R (l)Install abdominal straps (Ref. 25-11-63, P. Block 401).
R (m)Install cushions (Ref. 25-11-61, P. Block 401).
R (n)Install base cover (4) using screws (5) and washers (6).
R (p)Connect electrical connector.

(5)Close-Up
(a)Remove safety clips and tag and close circuit breaker 2MS.
(b)Perform seat operational test (Ref. 25-11-11, P. Block 501).
(c)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(d)Remove access platform.

R FIRST OFFICER SEAT - ADJUSTMENT/TEST
R

1. Operational Test

A. Manual Operational Test
The purpose of these tests is to make certain that the manual controls on the First Officer's seat operate correctly.
(Ref. Fig. 501)
(1)Horizontal movement

| ACTION | RESULT |
|---|---|
| 1. With seat in stowed position, pull up control handle H and push seat fully forwards | - seat must move smoothly. |
| 2. Release control handle H | - seat must lock in this position. |
| 3. Pull up control handle H and push seat backwards. | - travel range must be 7 in. (177.8 mm). |
| 4. Release control handle H | - seat must lock in this position. |

(2)Vertical movement

| ACTION | RESULT |
|---|---|
| 1. With seat in down position, pull up control handle V. Raise seat. | - seat must move 6,3 in. (160.0 mm). |
| 2. Release control handle V | - seat must lock in this position |
| 3. Pull up control handle V and push seat down | - seat must return smoothly to down position. |
| 4. Raise seat to middle of travel range and release control handle V | - whether the seat is under load or not, it must lock in this position. |
| 5. Return seat to down position | |

(3)Backrest tilting

| ACTION | RESULT |
|---|---|
| 1. Pull up control handle R located on right side of seat. Press lightly on backrest to tilt it | - maximum inclination must be 34°. |
| 2. Release control handle R | - backrest must lock in selected position. |
| 3. Pull up control handle R again | - backrest returns to forward |

| ACTION | RESULT |
|---|---|
| | position automatically. |

(4)Lumbarrest

| ACTION | RESULT |
|---|---|
| 1. Turn control knob located on side of seat | - lumbar rest moves to selected vertical position. |
| 2. Raise control lever located on opposite side of seat | - lumbar rest moves to selected horizontal position. |
| 3. Release control lever | - lumbar rest remains in selected position. |

(5)Shoulder harness

| ACTION | RESULT |
|---|---|
| 1. Push down lever, located behind seat. Pull harness gently | - harness must extend easily. |
| 2. Release harness | - harness must retract automatically. |
| 3. Pull harness abruptly | - harness must not extend. |
| 4. Pull up lever. Pull on harness. | - it must not extend. |

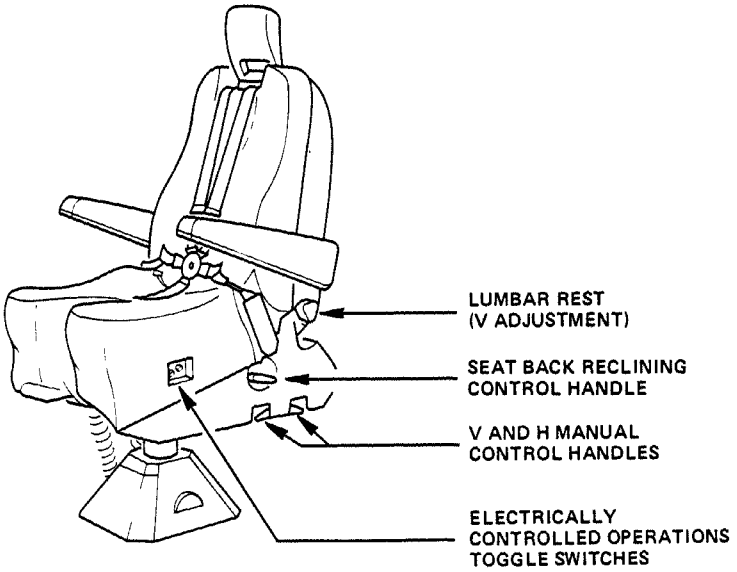
(6)Not applicable.

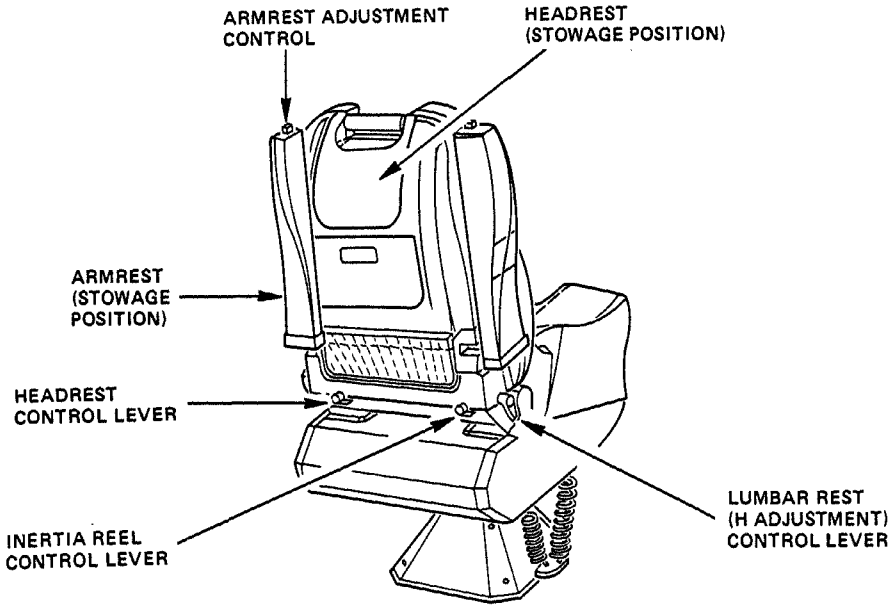
B. Electrical Operational Tests
The purpose of these tests is to make certain that the electrical controls of Fisrt Officer's seat operate correctly.
(1)Equipment and materials

| ITEM | DESIGNATION |
|---|---|
| Referenced Procedure<br>- 24-41-00, P. Block 301 | AC External Power Control |

(2)Procedure
(a)Job set-up
- Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(b)Test
1 Vertical movement

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First Officer Seat Controls
Figure 501

| ACTION | RESULT |
|---|---|
| 1. On vertical control switch, | |
| - Hold control switch in UP position | - seat must move upwards |
| - Release control switch | - seat must lock in selected position |
| - Hold control switch in DOWN position | - seat must move downwards |
| - Release switch | - seat must lock in selected position |
| 2. Check of extreme up and down positions : | |
| - Hold control switch in UP position. Seat moves to its highest position. | - Check that electric motor stops before seat reaches its highest position. |
| - Hold control switch in DOWN position. Seats moves to its lowest position. | - Check that electric motor stops before seat reaches its lowest position. |

2 Horizontal movement

| ACTION | RESULT |
|---|---|
| 1. On horizontal control switch, | |
| - Hold control switch in forward position | - seat moves forwards. |
| - Release control switch | - seat must lock in selected position |
| - Hold control switch in rearward position | - seat must moves backwards. |
| - Release control switch | - seat must lock in selected position |
| 2. Check of extreme forward and aft positions : | |
| - Hold control switch in forward position. Seat moves to maximum forward position. | - check that electric motor stops before seat reaches its maximum forward position. |
| - Hold control switch in extreme rearward position. Seat moves to maximum rearward position. | - check that electric motor stops before seat reaches its maximum rearward position. |

C. Close-Up
(1)Return seat to stowed position.
(2)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

# FIRST OFFICER SEAT - INSPECTION/CHECK

1. Reason for the Job

A. Visual Inspection of Seat Structure and Seat to Floor Attachment.

R B. Check of the Handle Travels (Horizontal and Vertical).

2. Procedure

A. Inspection/Check
(1)Make certain that seat cover fabric is free of tears and fraying.
(2)Check that Velcro tapes still adhere correctly.
(3)Check cushion elasticity.
(4)Make certain that nuts are correctly tightened.
(5)Check that structural parts and supports are neither deformed nor cracked.
(6)Make certain that paint is not cracked.
(7)Make certain that identification plates are legible and correctly attached.
(8)Check condition of welded parts and riveting.
(9)Make certain that seat controls are not subject to excessive play.
(10)Check that shoulder harness is neither worn nor torn.

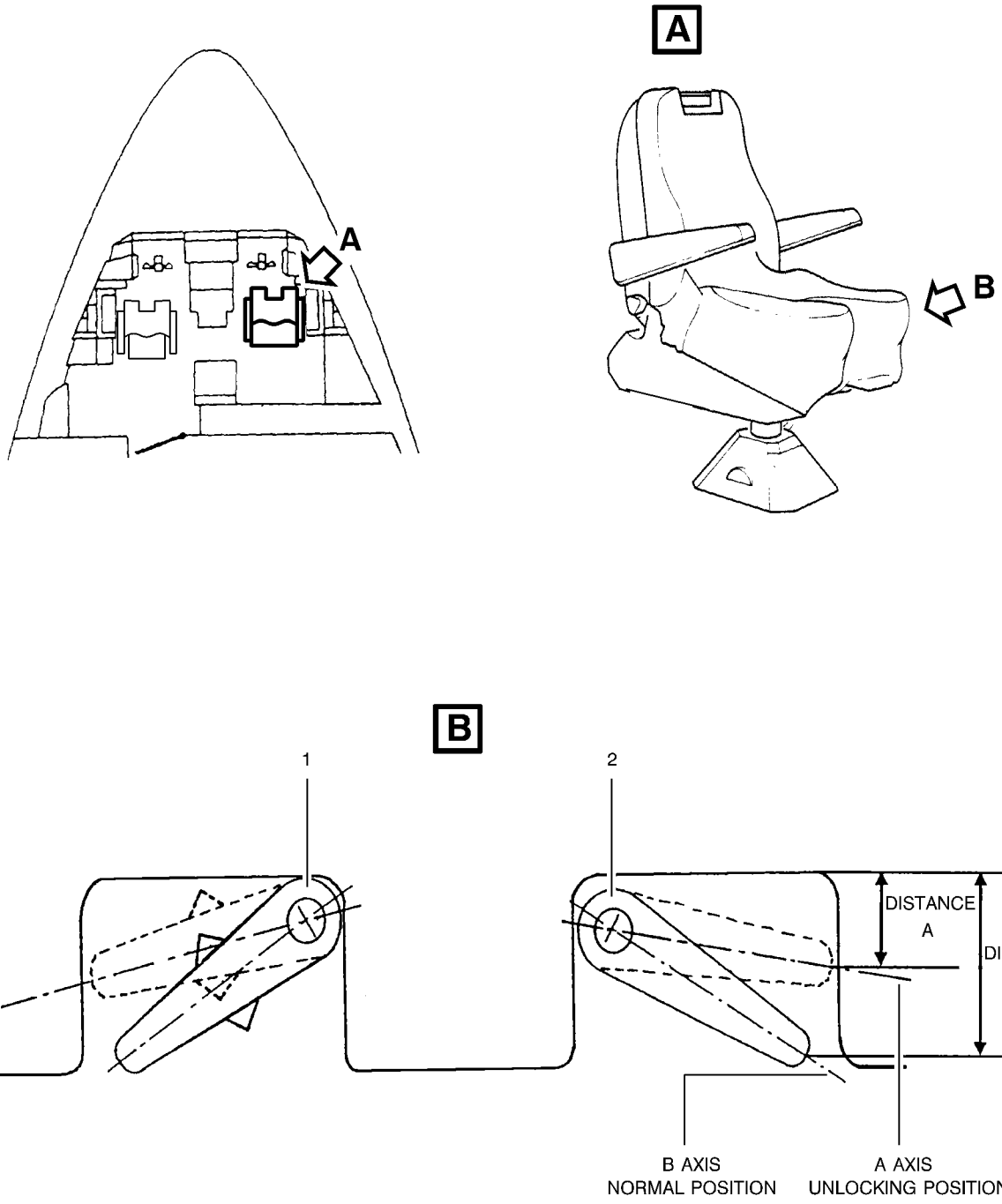
R

(11)Not applicable
(12)Not applicable
(13)Check that electrical connector and terminal strip are correctly connected.
(14)Make certain that there are no breaks or worn insulation in electrical wiring.

R B. Check of the Handle Travels (Horizontal and Vertical)
R (1)Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| Referenced Procedures | |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-11-12, P. Block 401 | First Officer Seat |

R (2)Procedure
R (Ref. Fig. 601)
R (3)Job set-up
R (a)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
R (4)Inspection
R NOTE : This procedure includes a check of the operations of the vertical and horizontal (V and H) mechanical control handles.
R (a)Move the seat to the maximum rearward position and to the maximum down position.




First Officer Seat Adjustment
Figure 601

R (b)Make sure that the control handles H (1) and V (2) turn freely. Make
R sure that there are no points of friction.
R (c)Align the B axis with the handle axis. The handle is in the normal
R position.
R NOTE : Distance A corresponds to the actuator in the unlocked
R position, from 20 to 25 mm (0.787 in. to 0.984 in.),
R Distance B corresponds to the actuator in the locked position,
R 50 mm (1.968 in.) maximum.
R (d)Make sure that the measurement corresponds to the distance B.
R (e)Move the handle from the B axis to the A axis. Make sure that the
R handle travel does not cause disengagement of the seat locking
R mechanism. The handle is in the unlocking position.
R (f)Make sure that the measurement corresponds to the distance A.
R (h)Release the handle. Make sure that the handle moves back to the normal
R position.
R (5)Close-up
R (a)De-energize the aircraft electrical network (Ref. 24-41-00,
R P. Block 301).

# FIRST OFFICER SEAT - DEACTIVATION/REACTIVATION

REF. MMEL Sect. 1-25, item 1A2

CAUTION : THIS PROCEDURE MUST BE USED ACCORDING TO THE REQUIREMENTS OF THE MMEL.

## 1. Deactivation

### A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Circuit Breaker Safety Clips |
| Referenced Procedure<br>- TSM 25-11-00 Block 3A | Electrical Control Fault on Flight Compartment Seat |

### B. Procedure

(1)Deactivation

(a)If adjustment system electrical control of First Officer seat is inoperative :

- Open, safety and tag the following circuit breaker :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | SEATS/F/O | 2MS | 326/J74 |

## 2. Reactivation

### A. Procedure

(1)Reactivation

(a)Troubleshoot system (Ref. TSM 25-11-00).

(b)Remove safety clip and tag and close circuit breaker 2MS.

## 3. Close-Up

A. Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# THIRD OCCUPANT FOLDING SEAT - REMOVAL/INSTALLATION

## 1. Equipment and Material

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform 4.5m (14ft. 9in.) |

## 2. Procedure

(Ref. Fig. 401)

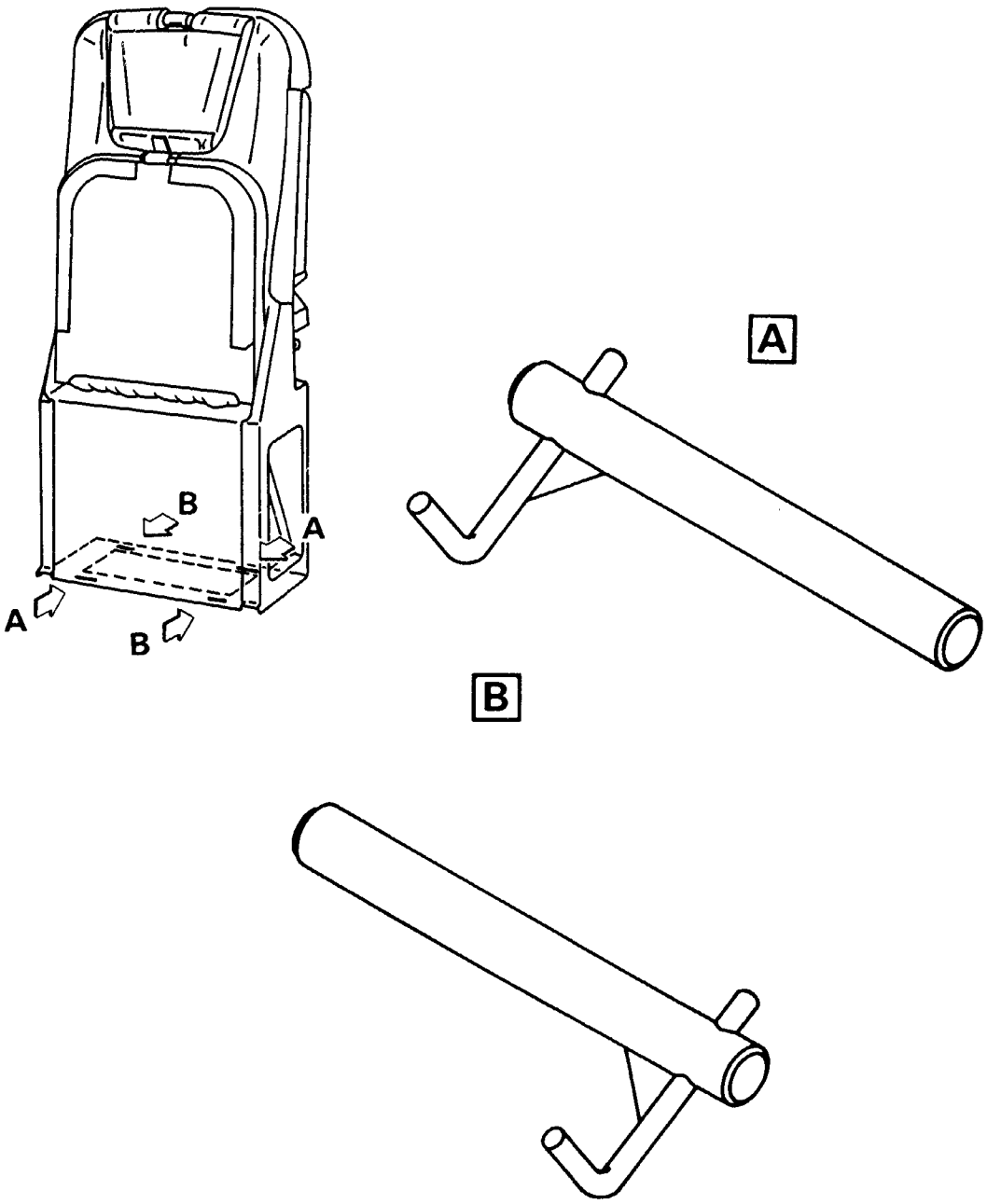
A. Job Set-Up
  (1)Install access platform.
  (2)Place third occupant seat in folded position. Remove oxygen mask and smoke goggles.

B. Removal
  (1)Pull both pins towards one another and hold them pulled.
  (2)Lift and remove seat.

C. Preparation of Replacement Component
  (1)Make certain that the seat metallic parts are free from cracks and traces of corrosion.
  (2)Check that seat belt and cushion are neither torn nor frayed.
  (3)Make certain that pins are clean.

D. Installation
  (1)Place the folded seat on its attachment points.
  (2)Release pins so that they engage in their housings.
  (3)Place oxygen mask and smoke goggles in their housing.

E. Close-Up
  (1)Remove access platform.

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Third Occupant Folding Seat - REMOVAL/INSTALLATION
Figure 401

# THIRD OCCUPANT FOLDING SEAT - INSPECTION/CHECK

1. Reason for the Job

A. Visual Inspection of Seat Structure and Seat Attachment Floor

2. Procedure

A. Inspection/Check
(1)Make certain that seat cover fabric is free of wear, tear and fraying. Check that Velcro tapes still adhere correctly.
(2)Check cushion elasticity.
(3)Remove oxygen mask and smoke goggles.
(4)Make certain that pins are correctly attached.
(5)Place oxygen mask and smoke goggles in their housing.
(6)Check that structural parts and supports are neither deformed nor cracked.
(7)Make certain that paint is not cracked.
(8)Make certain that identification plates are legible and correctly attached.
(9)Check condition of welded parts and riveting.
(10)Make certain that seat controls are not subject to excessive play.
(11)Make certain that shoulder harness is neither worn nor torn, and ckeck that it operates correctly.

B. Close-Up
(1)Return seat to original position.

# FOLDING SEAT - REMOVAL/INSTALLATION

1. Reason for the Job

A. Removal for Replacement.

2. Procedure
(Ref. Fig. 401)

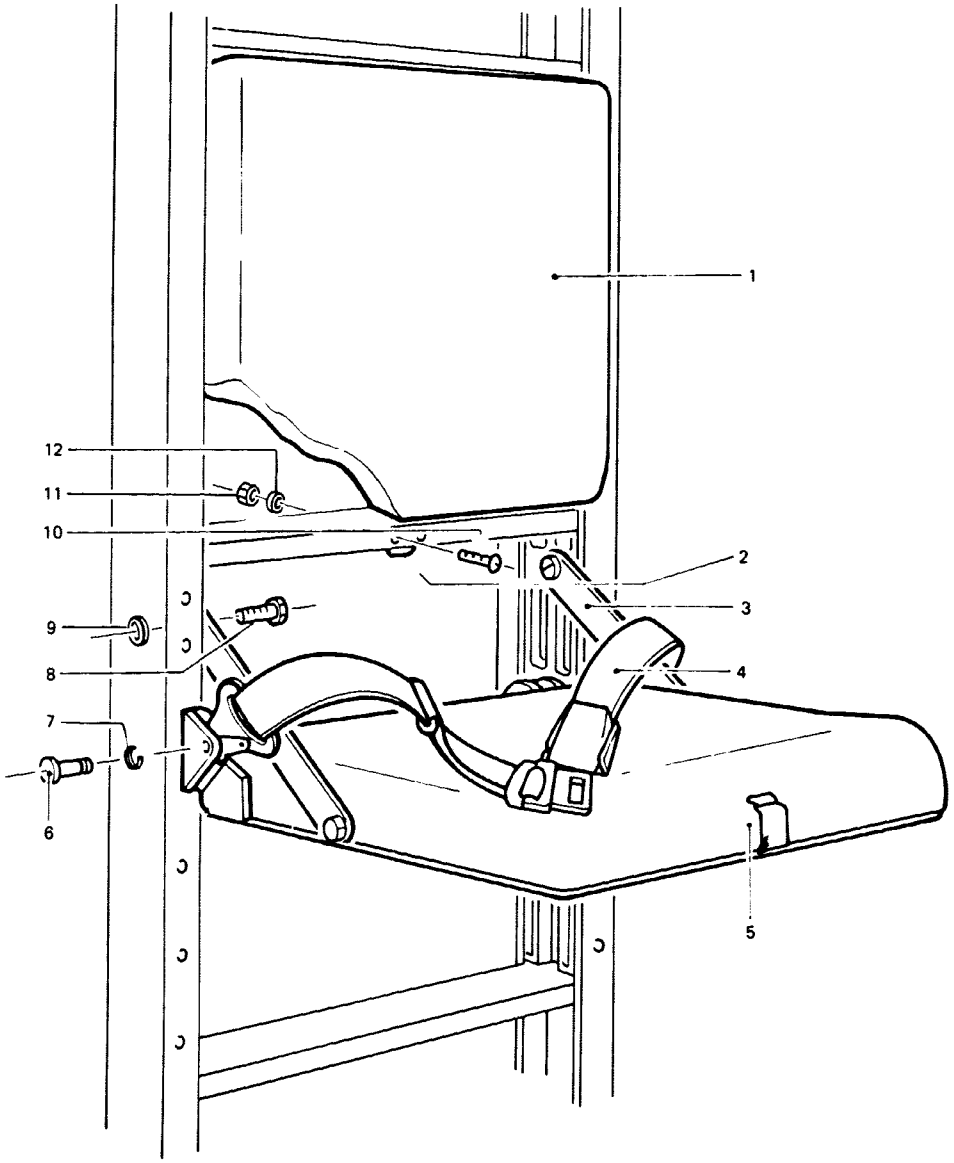
A. Job Set-Up
(1)Unfold seat.

B. Removal
(1)Removal of seat belt (4).
(a)Extract the two circlips (7).
(b)Withdraw the two shoulder pins (6).
(c)Remove seat belt.
(2)Removal of seatback cushion (1).
(a)Cushion is attached to support with Velcro tape. To remove cushion simply pull away from support.
(3)Removal of locking plate (2).
(a)Unscrew the two nuts (11), retain the two washers (12)
(b)Extract the two bolts (10), remove locking plate.
(4)Removal of seat (5).
(a)Remove the two screws (8), retain the two washers (9). Support seat and turn to disengage rollers from their tracks.

C. Preparation of Replacement Component
(1)Make certain that metal parts are not damaged or corroded.
(2)Check that cushions and seat belt are not dirty or frayed.

D. Installation
(1)Installation of seat (5).
(a)Position seat so that rollers engage in their tracks.
(b)Align support links (3). Position washers (9) between support links (3) and supports.
(c)Insert and tighten the two screws (8).
(2)Installation of locking plate (2).
(a)Position locking plate, insert the two bolts (10).
(b)Install washers (12), tighten the two nuts (11).
(3)Installation of seatback cushion (1).
(a)Position cushion and press firmly to support so that Velcro tapes adhere.
(4)Installation of seat belt (4).
(a)Position seat belt ends in attach fittings.
(b)Insert the two shoulder pins (6), assemble the two circlips (7).

E. Close-Up
(1)Fold up seat against side panel.
(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

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Folding Seat
Figure 401

# FOLDING SEAT - REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| Referenced Procedure<br>- 25-11-15, P. Block 501 | Folding Seat |

## 2. Procedure

(Ref. Fig. 401)

A. Job Set-up

(1)Fold down the seat.

B. Removal

(1)Removal of headrest (4).

Support the headrest remove the 3 countersunk head screws (9) from panel (4) and pull the panel upwards.

NOTE : Take care with seat belts.

(2)Removal of inertia reel (8).

(a)Behind the partition to which seat is attaches, remove the protective cover and the 6 nuts (5).

(b)Via front of partition, remove the 6 bolts (7) and the 6 washers (6). Remove the inertia reel (8).

(3)Removal of backrest (13)

(a)Remove the 2 countersunk head screws (10) and the 2 stops (11). Disengage the studs (12) from their slides.

(b)Remove the 2 cotter pins (17) and the 2 pins (16). Retain the 2 washers (15) and disengage the support links (14).

(c)Remove the backrest (13).

(4)Removal of seat (1)

(a)Remove the 2 screws (3) then disengage the support links (2). Support the seat and turn to disengage the rollers from their tracks.

(b)Remove the seat (1).

C. Preparation of Replacement Component

(1)Make certain that the metal parts are not damaged or corroded.

(2)Check that the cushions are not dirty or frayed.

D. Installation

(1)Installation of seat

(a)Position the seat so that the rollers engage in their tracks.

(b)Align the support links (2). Install and tighten the two screws (3).

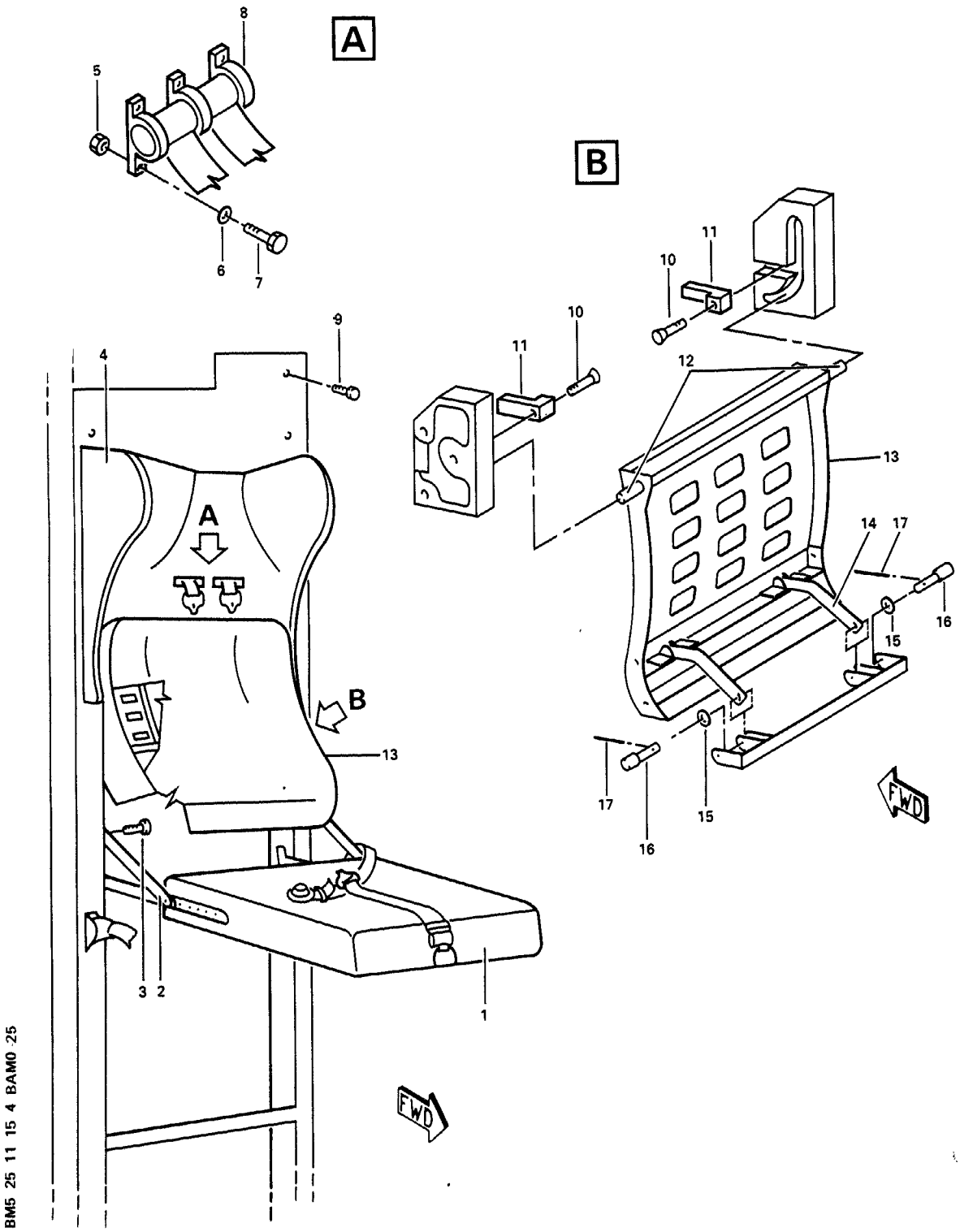
(2)Installation of backrest (13)

(a)Position the support links (14) and the washers (15) on the supports, insert the pins (16) and block the system with the 2 cotter pins (17).

(b)Position the studs (12) in their slides. Install the 2 stops (11) and attach with the 2 countersunk head screws (10). Tighten.

(3)Installation of inertia reel (8)

(a)Position the inertia reel (8)




Folding Seat
Figure 401

(b)Install the 6 bolts (7) and the 6 washers (6).
(c)Behind the partition to which the seat is attached, install and tighten the 6 nuts (5). Install the protective cover.

(4)Installation of headrest (4)
(a)Position the panel supporting the headrest, pass the seat belts through the slots.
(b)Install and tighten the 3 countersunk head screws (9).

E. Close-Up

(1)Perform the functional test of the folding seat (Ref. 25-11-15, P. Block 501).
(2)Make certain that the working area is clean and clear of tools and miscellaneous items of equipment.

# FOLDING SEAT - ADJUSTMENT/TEST

1. General
   To make certain that the folding seat operates correctly.

2. Procedure

   A. Seat Functional Test
      NOTE : Seat must not be occupied during this test.

| ACTION | RESULT |
|---|---|
| Move the locking handle located under seat pan and move the seat. | The seat can move to service or stowage position correctly. |

# FOLDING SEAT - ADJUSTMENT/TEST

1. General
   To make certain that the components making up the folding seat operate correctly.

2. Job Set-up
   Fold down the seat.

3. Procedure

A. Backrest Functional Test

| ACTION | RESULT |
|---|---|
| (1) With backrest in high position, press downwards on backrest. | Backrest moves to low position. |
| (2) Push backrest upwards. | Backrest moves to high position. There are no intermediary positions. |

B. Seat Functional Test
NOTE : Seat must not be occupied during this test.

| ACTION | RESULT |
|---|---|
| Move the locking handle located under front of seat towards the rear and move the seat. | The seat locks in one of the 8 positions. |

C. Inertia Reel Functional Test
NOTE : Seat must not be occupied during this test.

| ACTION | RESULT |
|---|---|
| (1) Pull harness gently | It must extend easily. |
| (2) Release harness | It must retract automatically. |
| (3) Pull harness abruptly | It must not extend. |

4. Close-Up
   Return seat to stowed position.

R 1. Reason for the Job

R A. Visual Inspection of Seat Structure and Attachment

2. Procedure

A. Inspection/Check
(1)Make certain that seat unlocks easily and moves freely without play, on its tracks.
(2)Check that tracks and rollers are clean.
(3)Check that locking system operates correctly.
R (4)Make certain that all bolts that attach seat have no corrosion
R and are installed correctly.
(5)Make certain that metal parts are not damaged or corroded.
(6)Check that seat belt locks and unlocks easily. Make certain that it is not worn or torn.
(7)Check that cushions are not dirty or torn. Make certain that seat springs are not stretched or broken.

B. Close-Up
(1)Fold up seat against side panel.

# CAPTAIN (FIRST OFFICER) SEAT CUSHIONS - REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platforms 4.5 m (14 ft. 9 in.) |
| Referenced Procedures<br>- 24-41-00, P. Block 301 | AC External Power Control |

## 2. Procedure

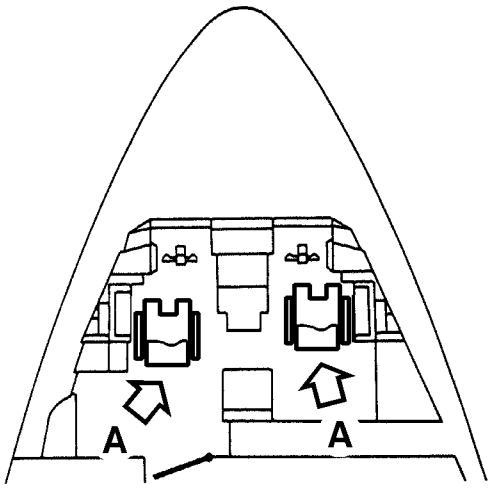
(Ref. Fig. 401)

A. Job Set-up
  (1)Position access platforms.
  (2)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 401).

B. Removal
  NOTE : Velcro tapes attach the seat cushions to the seat.
  NOTE : The seat cushions include covers and foam.
  (1)Remove bottom cushion (2) from seat (3).
  (2)Remove backrest cushion (1) from seat (3).
    NOTE : If necessary, keep the seat cushions in a dry and clean area.

C. Installation
  NOTE : To install seat cushions, refer to the position of the velcro tapes.
  NOTE : The seat cushions include covers and foam.
  (1)Put backrest cushion (1) in position.
  (2)Push backrest cushion (1) to attach it to the velcro tapes.
  (3)Put bottom cushion (2) in position.
  (4)Push bottom cushion (2) to attach it to the velcro tapes.

D. Close-Up
  (1)De-energize the aircraft electrical network
    (Ref. 24-41-00, P. Block 401).
  (2)Remove access platforms.

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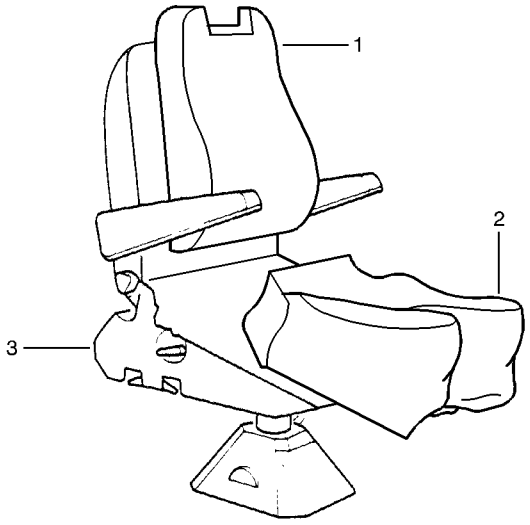


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Captain (First Officer) Seat Cushions
Figure 401

R SAFETY HARNESS - SEAT, CAPTAIN/FIRST OFFICER - REMOVAL/INSTALLATION
R

1. Equipment and Materials

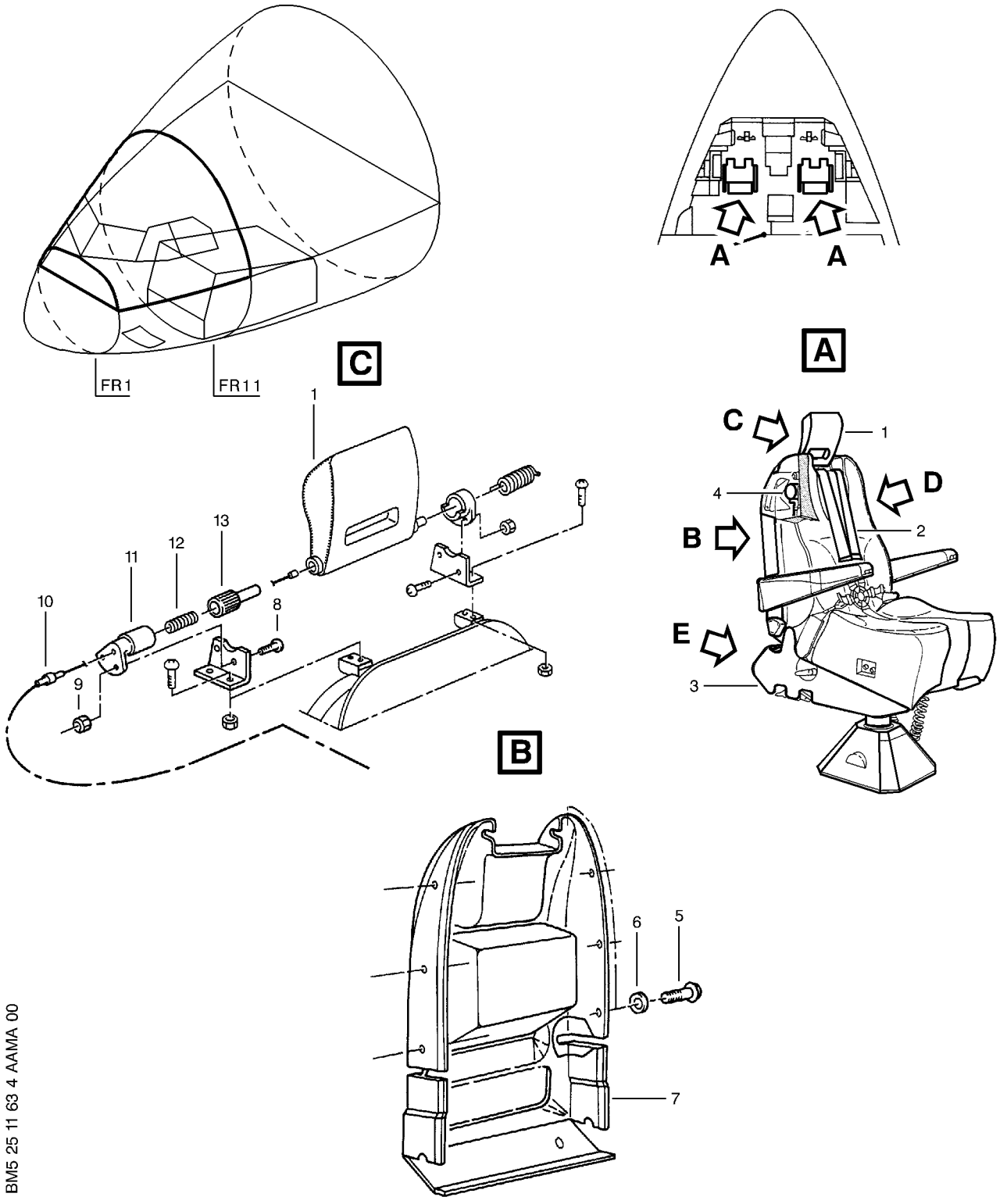
| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Access Platform 4.5 m (14 ft. 9 in.) |
| Reference Procedures | |
| - 25-11-11, P. Block 501 | Captain - Seat |
| - 25-11-12, P. Block 501 | First Officer - Seat |

2. Procedure
(Ref. Fig. 401)

A. Job Set-Up
(1)Install access platform.
(2)Open, safety and tag the following circuit breakers :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 125VU | SEATS/CAPT | 1MS | 502/J53 |
| 125VU | SEATS/F/O | 2MS | 503/H53 |

B. Removal
NOTE : Velcro tapes attach the seat cushions to the seat.
NOTE : The seat cushions include the covers and the foam.
(1)Remove back cushion (2) from seat (3).
NOTE : If necessary, keep the seat cushions in a dry and clean area.
NOTE : Make marks on all the parts before disassembly to help you and prevent errors during assembly.
NOTE : Lock the harness to remove it.
(2)Remove the eight screws (5) and washers (6) of back upholstery (7) from seat (3).
(3)Remove the two screws (8), nuts (9) and separate splined bearing (11), if headrest (1) installed.
(4)Withdraw equipped cable (10), remove splined pin (13), spring (12) and splined bearing (11), if headrest (1) installed.
(5)Remove headrest (1), if installed.
(6)Remove screw (18), washer (19), self-locking nut (20) and abdominal strap (17) with buckle.
(7)Remove screw (23), washer (22), self-locking nut (21) and abdominal strap (24) with connector.
(8)Discard self-locking nuts (20) and (21).
(9)Separate the end of cable (25) from reel assy (4) by withdrawing cable grip (26) and by unscrewing the end of cable (25).
(10)Remove the two screws (30) and knob (31).
(11)Remove the two screws (28) and (29) and strap guide (27).
(12)Remove the six bolts (16), washers (15), nuts (14) and remove reel assy (4).

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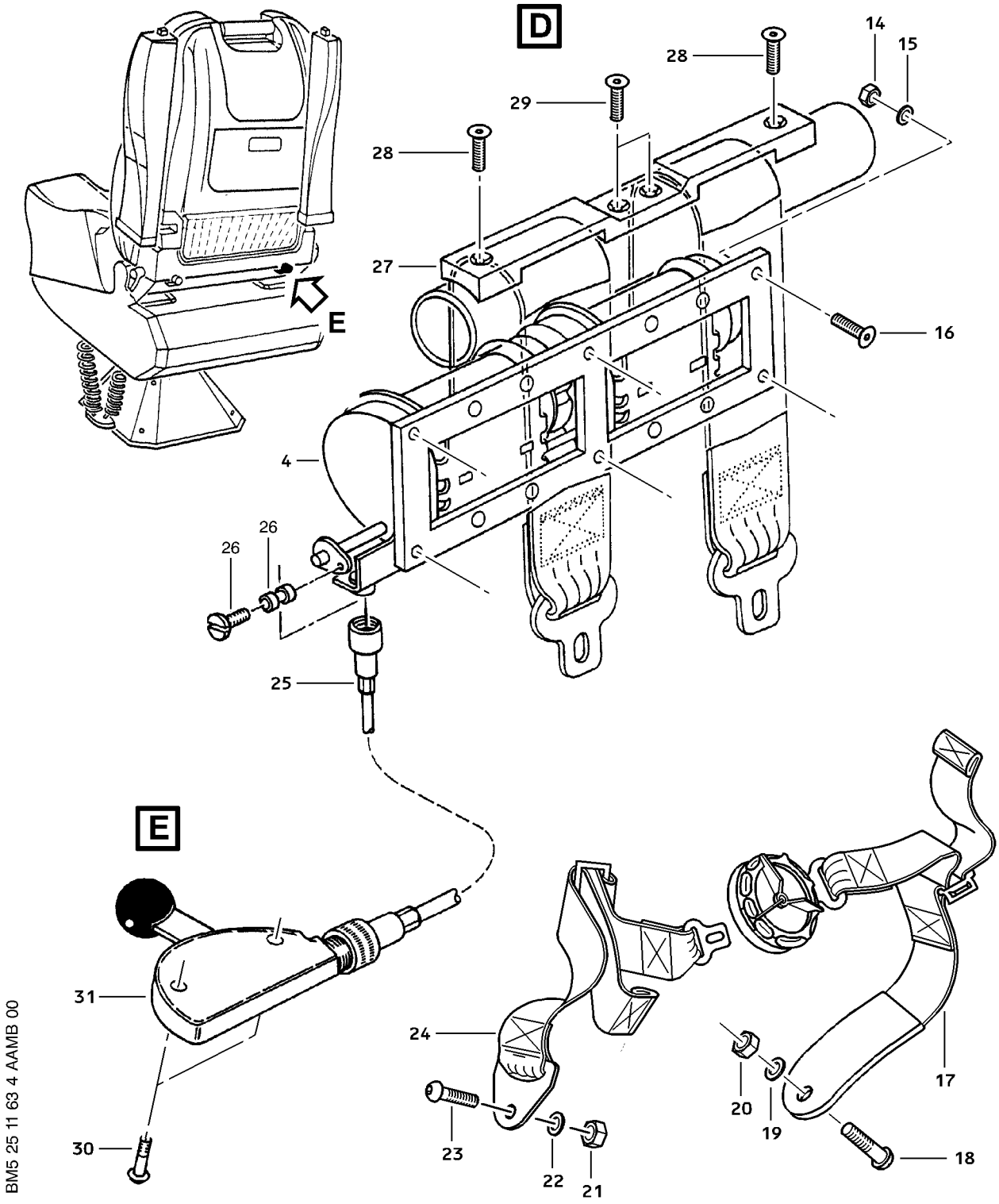
Captain/First Officer Seat Harness Assy
(Sheet 1/2)
Figure 401




Captain/First Officer Seat Harness Assy
(Sheet 2/2)
Figure 401

C. Installation

(1)Put reel assy (4) in position on seat (3).
(2)Install the six bolts (16), washers (15) and nuts (14).
(3)Tighten the six nuts (14).
(4)Make sure that the two straps of reel assy (4) are in the correct position.
(5)Put strap guide (27) in position and install the two screws (28) and (29).
(6)Tighten the two screws (28) and (29).
(7)Put knob (31) in position on seat (3) and install the two screws (30).
(8)Tighten the two screws (30).
(9)Secure the end of cable (25) to reel assy (4) by screwing cable grip (26).
(10)Put abdominal strap (17) with buckle in position and install screw (18), washer (19) and a new self-locking nut (20).
(11)Tighten self-locking nut (20).
(12)Put abdominal strap (24) with connector in position and install screw (23), washer (22) and a new self-locking nut (21).
(13)Tighten self-locking nut (21).
(14)Put headrest (1) in position on seat (3), if removed.
(15)On the cable of equipped cable (10), install splined pin (13), spring (12) and splined bearing (11), if headrest (1) removed.
(16)Put splined bearing (11) in position on seat (3) and install the two screws (8) and nuts (9), if headrest (1) removed.
(17)Tighten the two screws (8), if headrest (1) removed.
(18)Put back upholstery (7) in position on seat (3).
(19)Install the eight screws (5) and washers (6).
(20)Tighten the eight screws (5).
NOTE : The seat cushions include the covers and the foam.
NOTE : To install the seat cushions, refer to the position of the velcro tapes.
(21)Put back cushion (2) in position.
(22)Push back cushion (2) to attach it to velcro tapes.

D. Close-Up

(1)Perform seat operational test (Ref. 25-11-11, P. Block 501 for Captain Seat and Ref. 25-11-12, P. Block 501 for First Officer Seat).
(2)Remove safety clips and tags and close circuit breakers 1MS, 2MS.
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(4)Remove access platform.

# ARMREST ASSY - CAPTAIN/FIRST OFFICER SEAT - REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform 4.5 m (14 ft. 9 in.) |
| B. Material No. 08-013 | Loctite 221 |
| Referenced Procedure | |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-11-61, P. Block 401 | Captain (First Officer) Seat Cushions |

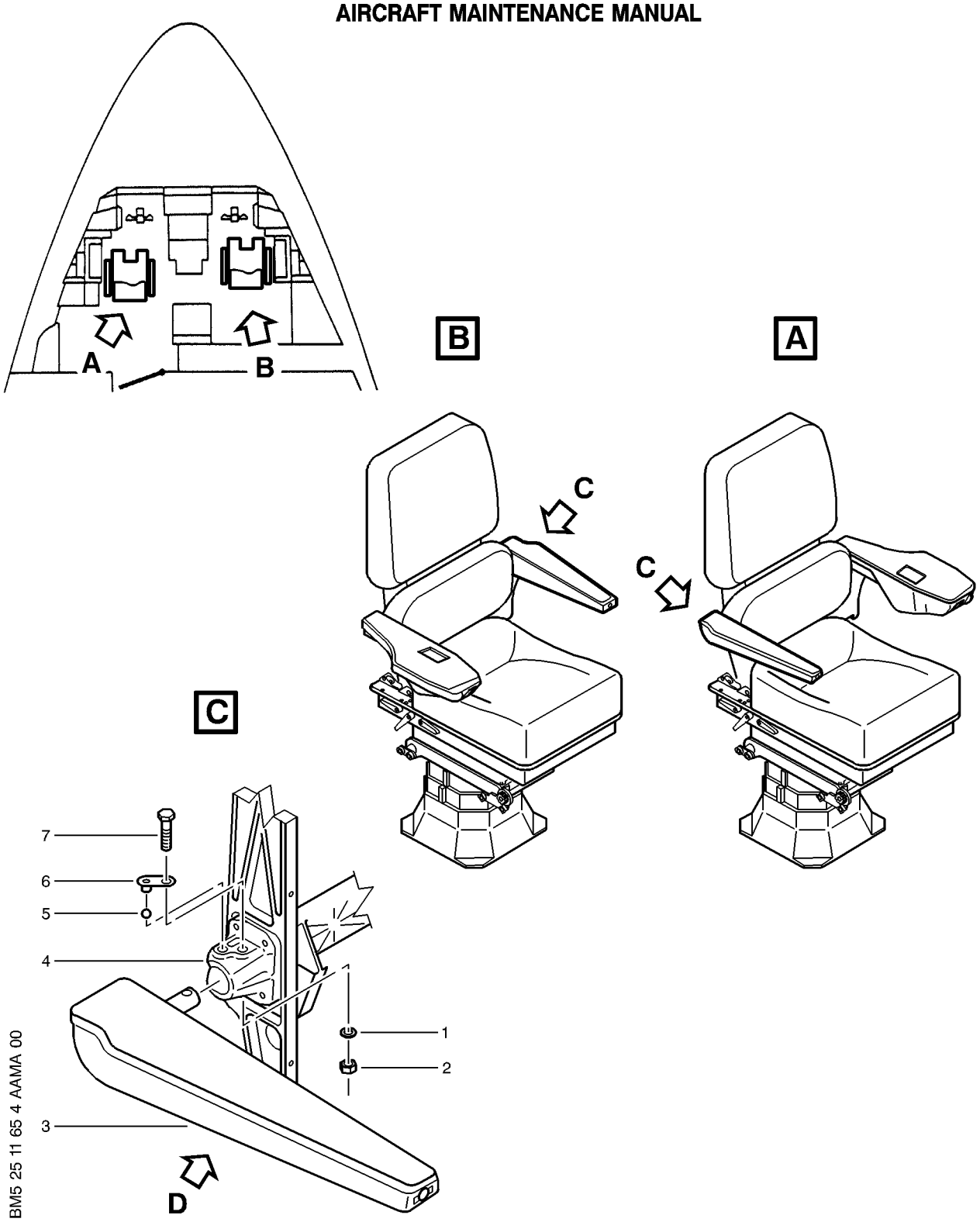
## 2. Procedure

(Ref. Fig. 401)

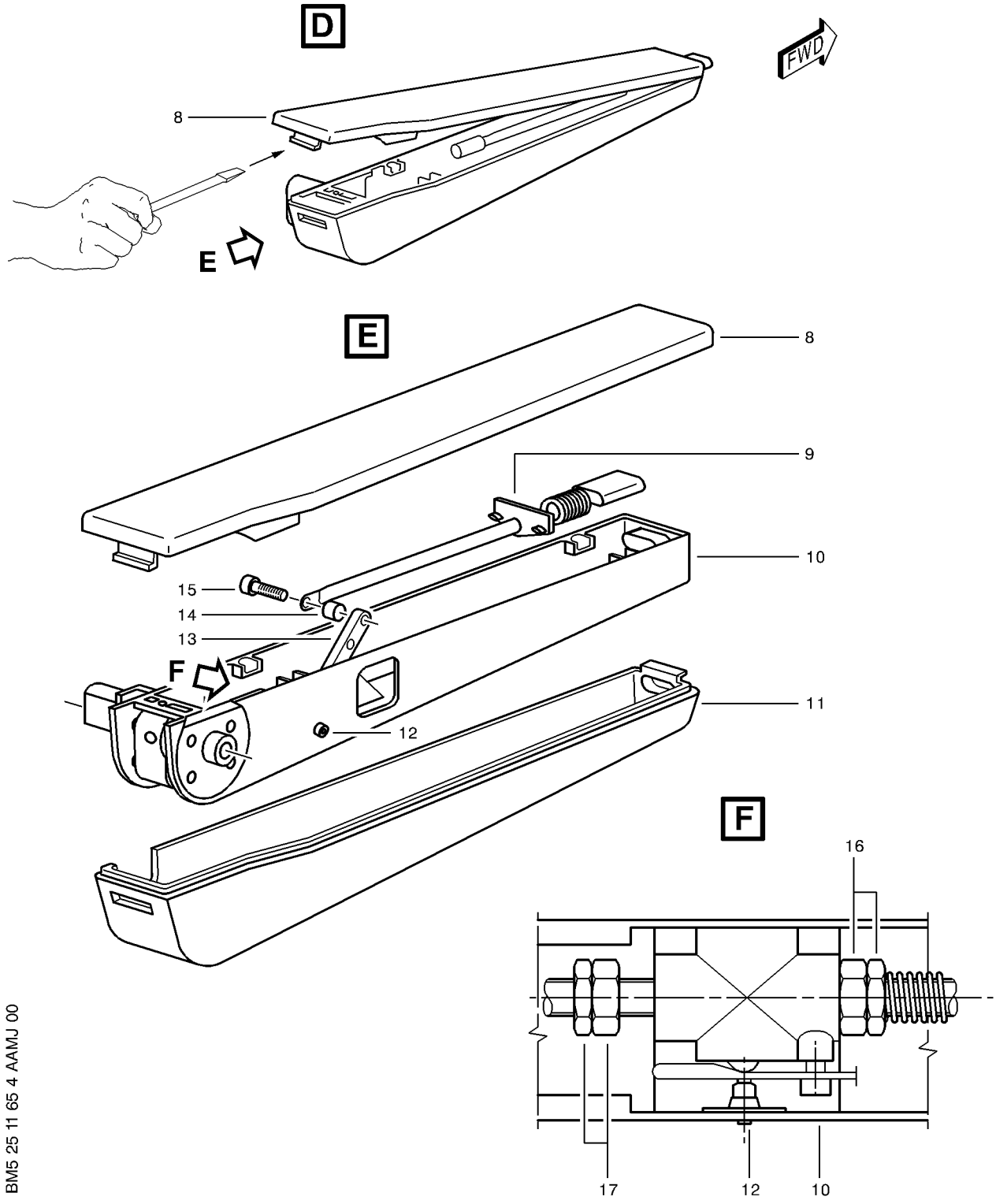
A. Job Set-up
  (1)Install access platform.
  (2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
  (3)Remove the Captain (First Officer) seat backrest cushion (Ref. 25-11-61, P. Block 401).

B. Removal
  (1)Remove the screw (7), the washer (1) and the nut (2).
  (2)Remove the retainer (6) and the ball (5) with a screwdriver or a magnetic finger.
  (3)Disengage the armrest (3) from the armrest fitting (4).
  (4)Use a screwdriver to disengage the armcap (8) from the armrest (3).
  (5)Carefully disengage the rear part of the lower shroud (11) from the armrest structure (10).
  (6)Push the lower shroud (11) forward to disengage the button of the equipped lever (9) and remove the lower shroud (11).
  (7)Remove the screw (15) and the spacer (14) from the bellcrank (13) of the armrest structure (10).
  (8)Remove the equipped lever (9) from the armrest structure (10).

C. Installation
  (1)Clean the component interface and/or the adjacent area.
  (2)Install the equipped lever (9) on the armrest structure (10).
  (3)Install the spacer (14) and the screw (15) on the bellcrank (13) of the armrest structure (10).
  (4)Tighten and safety the screw (15) with Loctite 221 (Material No. 08-013).
  (5)Engage the lower shroud (11) on the button of the equipped lever (9).
  (6)Engage the rear part of the lower shroud (11) on the armrest structure (10).
  (7)Engage the armrest (3) on the armrest fitting (4) and install the ball (5) and the retainer (6).
  (8)Install the screw (7), the washer (1) and the nut (2).
  (9)Tighten the screw (7).
    NOTE : Adjust the force of the screw (7) on the ball (5) to hold the armrest back when it moves down.




Captain (First Officer) Seat Armrest Assy (Sheet 1/2)
Figure 401




Captain (First Officer) Seat Armrest Assy (Sheet 2/2)
Figure 401

(10)Do the steps that follow to adjust the armrest locking device :
(a)Push the button of the equipped lever (9) to unlock the armrest (3).
(b)Make sure that the button of the equipped lever (9) has a travel of 7 mm (0.27 in.) to unlock the armrest (3).
(c)If necessary, adjust this travel to 7 mm (0.27 in.) with the setscrew (12).
(11)Do the steps that follow to adjust the armrest (3) on the seat :
(a)Move the seat to the lowest position.
(b)Push the button of the equipped lever (9) to unlock the armrest (3).
(c)Move the armrest (3) to the lowest position.
(d)Make sure that the clearance between the armrest (3) and the floor is between 405 and 427 mm (15.95 and 16.81 in.).
(e)If necessary, adjust this clearance to between 405 and 427 mm (15.95 and 16.81 in.) with the two nuts (16) and tighten them.
(f)Push the button of the equipped lever (9) to unlock the armrest (3).
(g)Move the armrest (3) to the highest position.
(h)Make sure that the clearance between the armrest (3) and the floor is between 570 and 590 mm (22.44 and 23.23 in.).
(j)If necessary, adjust this clearance to between 570 and 590 mm (22.44 and 23.23 in.) with the two nuts (17) and tighten them.
(12)Engage the armcap (8) on the armrest (3) then push it vertically to lock.

D. Close-up
(1)Make sure that working area is clean and clear of tools and miscellaneous items of equipment.
(2)Install the Captain (First Officer) seat backrest cushion (Ref. 25-11-61, P. Block 401).
(3)Disconnect electrical ground power unit and de-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(4)Remove access platform.

# ARMREST ASSY - ASSIST, CAPTAIN/FIRST OFFICER SEAT - REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform 4.5 m (14 ft. 9 in.) |
| B. Material No. 08-013 | Loctite 221 |
| Referenced Procedure<br>- 24-41-00, P. Block 301 | AC External Power Control |

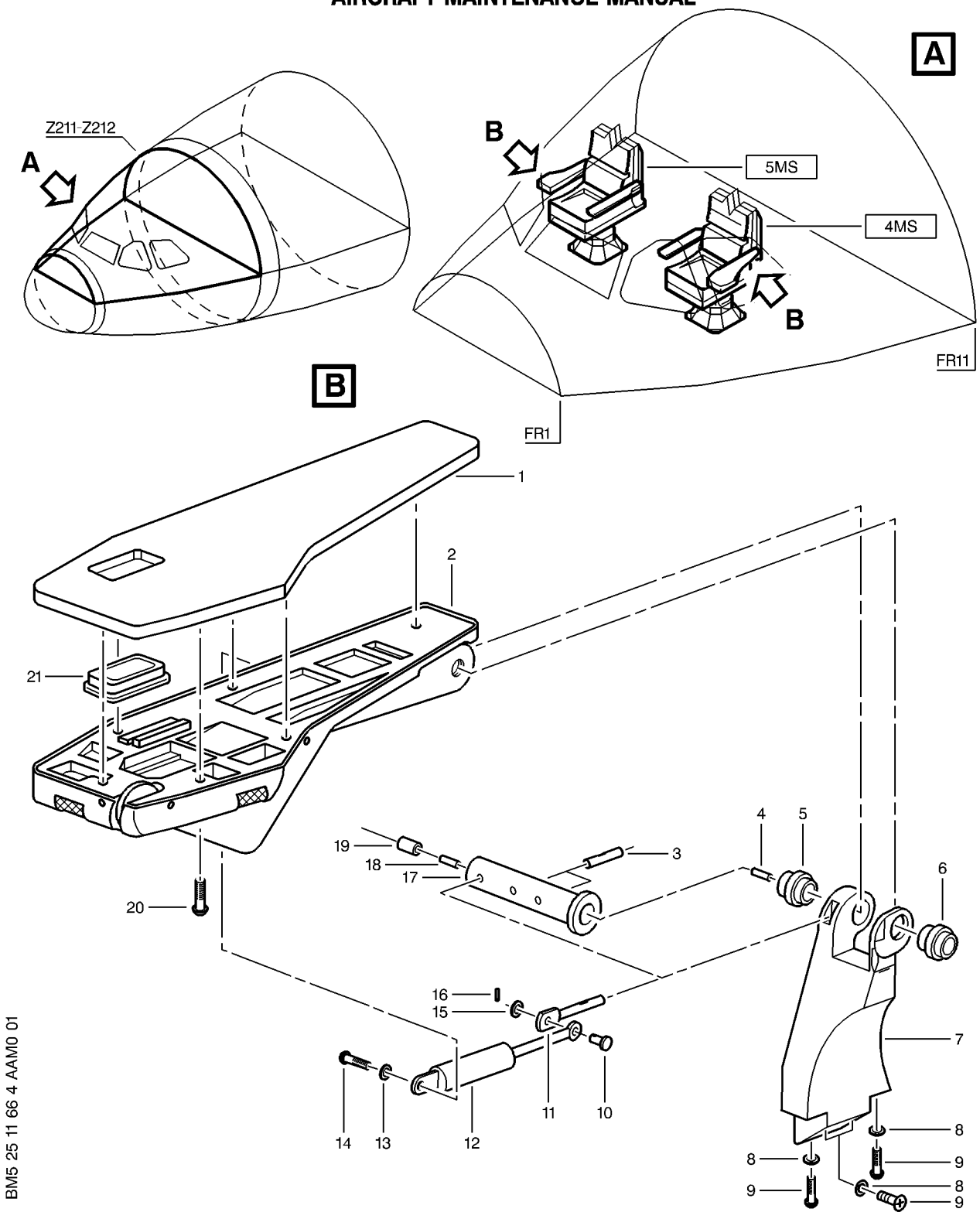
## 2. Procedure

(Ref. Fig. 401)

A. Job Set-up
  (1)Install access platform.
  (2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

B. Removal
  NOTE : Make marks on all the parts before disassembly to help you and prevent errors during assembly.
  (1)Remove the screws (9), the washers (8) and the assist armrest assy from the seat pan.
    NOTE : Make sure that the seat is in the stowed position before you remove the screws (9) and the washers (8).
  (2)Remove the cylinder (12) :
    (a)Remove the screw (14) and the washer (13) from the cylinder (12).
    (b)Remove the cylinder (12) from the armrest (2).
    (c)Remove the setscrew (19) to release the pin (11).
    (d)Disengage the cylinder (12) and the pin (11) from the main pin (17).
    (e)Remove the pin (16), the washer (15), the pin (11) and the shouldered pin (10).
  (3)Remove the armrest from the fitting (7) :
    (a)Remove the setscrews (18) and (4).
    (b)Remove the two notched pins (3).
    (c)Disengage the main pin (17) from the fitting (7).
    (d)Remove the armrest (2) from the fitting (7).
      NOTE : Retain the two shouldered bushes (5), (6) and the inner shroud.
    (e)Remove the screws (20) and the armcap (1) from the armrest (2).
    (f)Remove the casing (21) from the armcap (1).

C. Installation
  (1)Clean the component interface and/or the adjacent area.
  (2)Install the armrest on the fitting (7) :
    (a)Install the casing (21) on the armcap (1).
    (b)Install the armcap (1) on the armrest (2) and install the screws (20).
    (c)Tighten the screws (20).
    (d)If necessary, install the two shouldered bushes (5) and (6) and the inner shroud.




Captain (First Officer) Seat Assist Armrest-Assy
Figure 401

(e)Install the armrest (2) on the fitting (7).
(f)Install the main pin (17) on the fitting (7).
(g)Install the two notched pins (3).
(h)Safety the setscrews (18) and (4) with Loctite 221 (Material No. 08-013) and install them in the main pin (17).
(j)Tighten the setscrews (18) and (4).

(3)Install the cylinder (12) :
(a)Install the shouldered pin (10) through the cylinder (12) and the pin (11).
(b)Install the washer (15) and the pin (16).
(c)Engage the cylinder (12) and the pin (11) into the main pin (17).
(d)Safety the setscrew (19) with Loctite 221 (Material No. 08-013) and install it in the main pin (17).
(e)Tighten the setscrew (19).
(f)Install the cylinder (12) on the armrest (2) and install the washer (13) and the screw (14).
(g)Tighten the screw (14).

(4)Install the assist armrest assy on the seat pan.
(5)Safety the screws (9) with Loctite 221 (Material No. 08-013).
(6)Install the screws (9) and the washers (8) and tighten them.
NOTE : Make sure that the seat is in the stowed position before you install the screws (9) and the washers (8).
(7)Make sure that the armrest assembly moves correctly.

D. Close-up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(2)Disconnect electrical ground power unit and de-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Remove access platform.

# HEAT AND SOUND INSULATION - DESCRIPTION AND OPERATION

## 1. General

The purpose of insulation is to limit thermal exchanges with the outside, reduce the level of operation noise and absorb internal noise.

## 2. Description

(Ref. Fig. 001, 002, 003)
(Ref. Fig. 004)

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Heat and Sound Insulation Pressure Bulkhead, FR1 (Ref. 25-12-11) | 110 | |
| 2 | Heat and Sound Insulation Side Walls and Ceiling between FR10 and FR11 (Ref. 25-12-11) | 210 | |
| 3 | Heat and Sound Insulation Ceiling between FR4 and FR10 (Ref. 25-12-11) | 210 | |
| 4 | Shield Assembly - Flight Compartment Ceiling (Ref. 25-12-11) | 210 | |

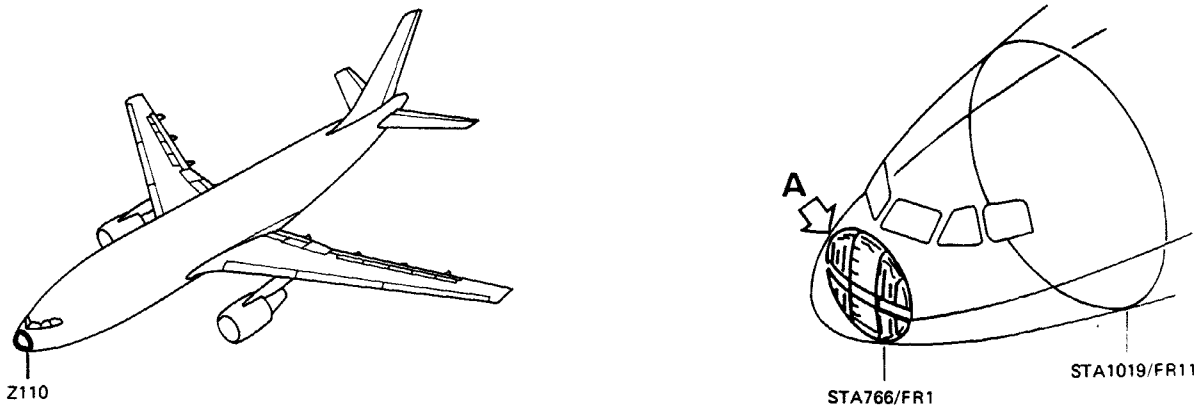
(Ref. Fig. 005)
The flight compartment is insulated by blankets composed of one or more layers of glass wool depending on the zone to be insulated, covered with aluminium foil.
The external aluminium foil is perforated to allow expansion of air absorbed by glass wool. The internal aluminium foil is watertight in order to avoid absorption of water vapor by the insulation blanket. The insulation blankets are assembled by thermowelding.
The insulation blankets are attached to studs fixed to "Velcro" tapes. These are attached to the fuselage. The insulation blankets are attached to the frames by studs made of two parts, one of which is screwed into the other through the frame web.
Hooks on the ends of the studs allow a retaining mesh to be formed with nylon threads.

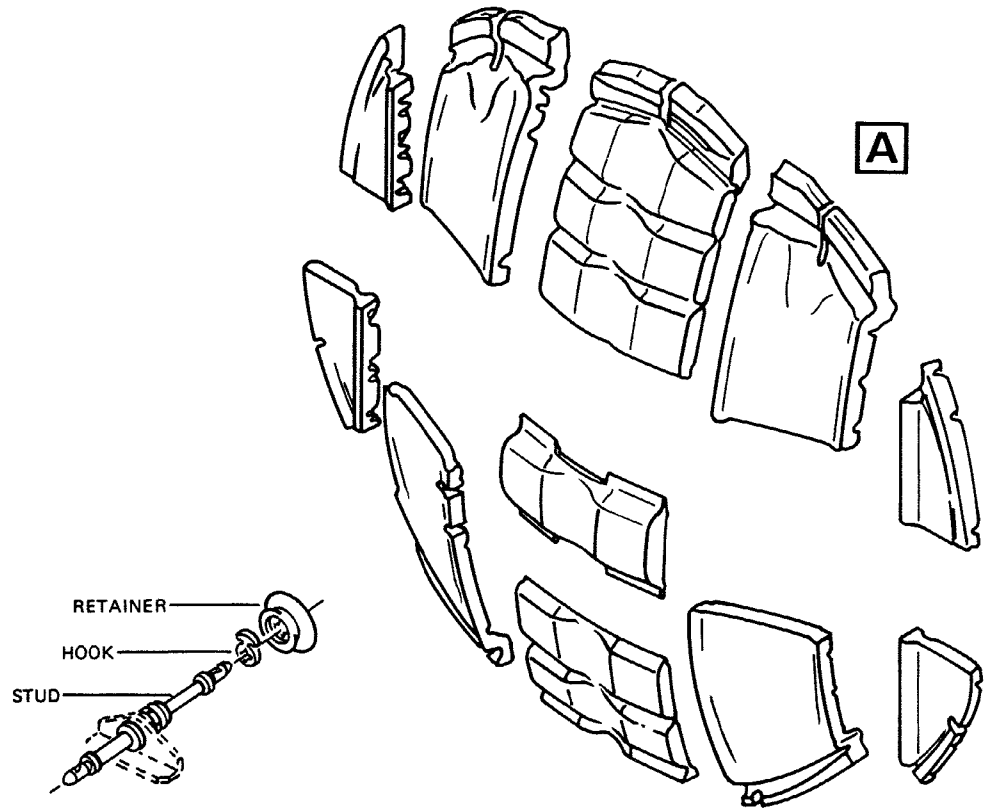
### A. Heat and Sound Insulation Installation - Pressure Bulkhead, FR1.

(Ref. Fig. 001)
The pressure bulkhead is insulated by blankets composed of two layers of glass wool.
The insulation blankets are attached to the frame 1 wall by studs made of two parts, one of which is screwed into the other through the frame web. Each stud is fitted with a hook and a retainer for attaching the insulation blankets.

### B. Heat and Sound Insulation Installation - Side Walls and Ceiling Between FR10 and FR11

(Ref. Fig. 002)

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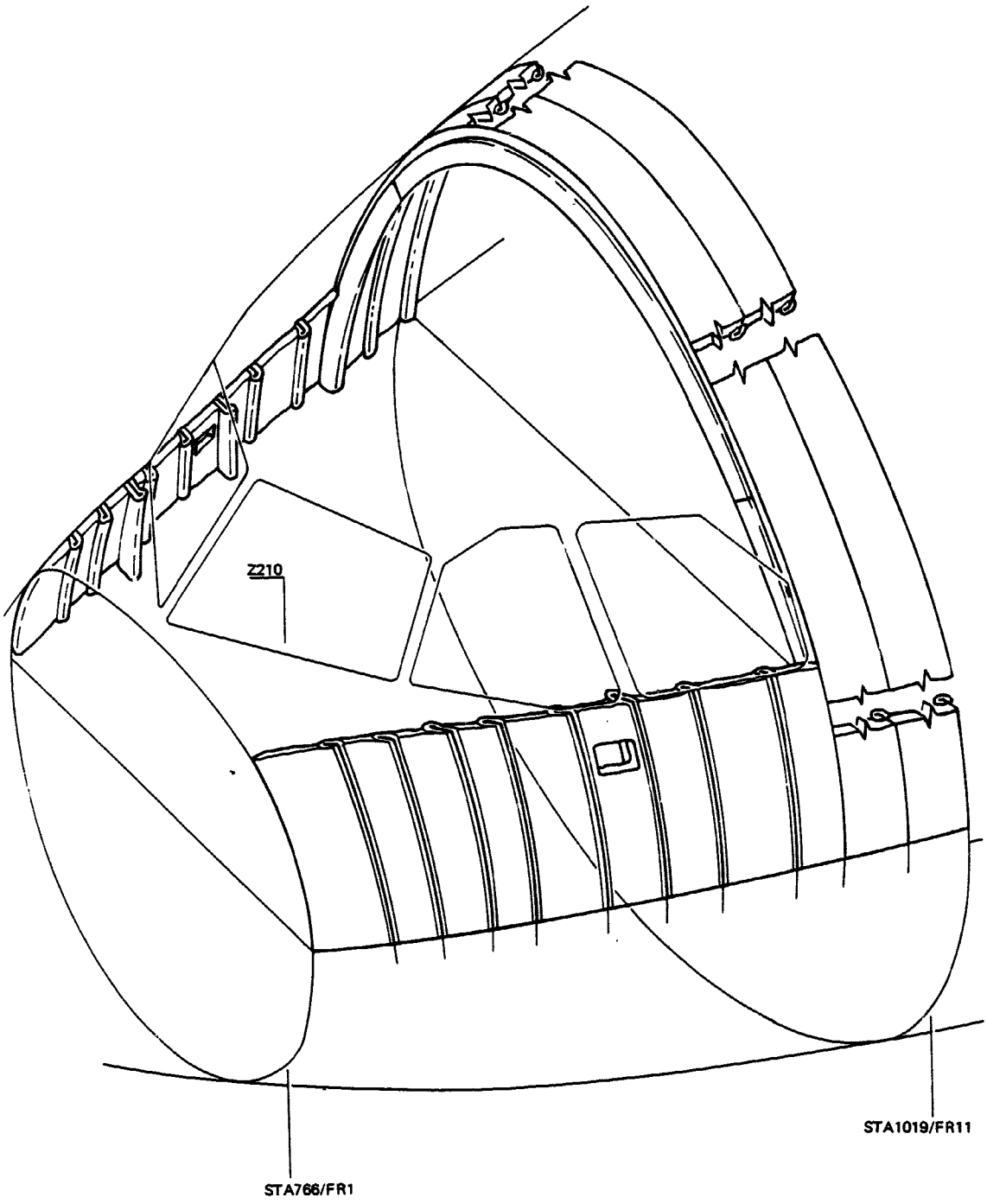
Heat and Sound Insulation - Pressure Bulkhead, FR1
Figure 001

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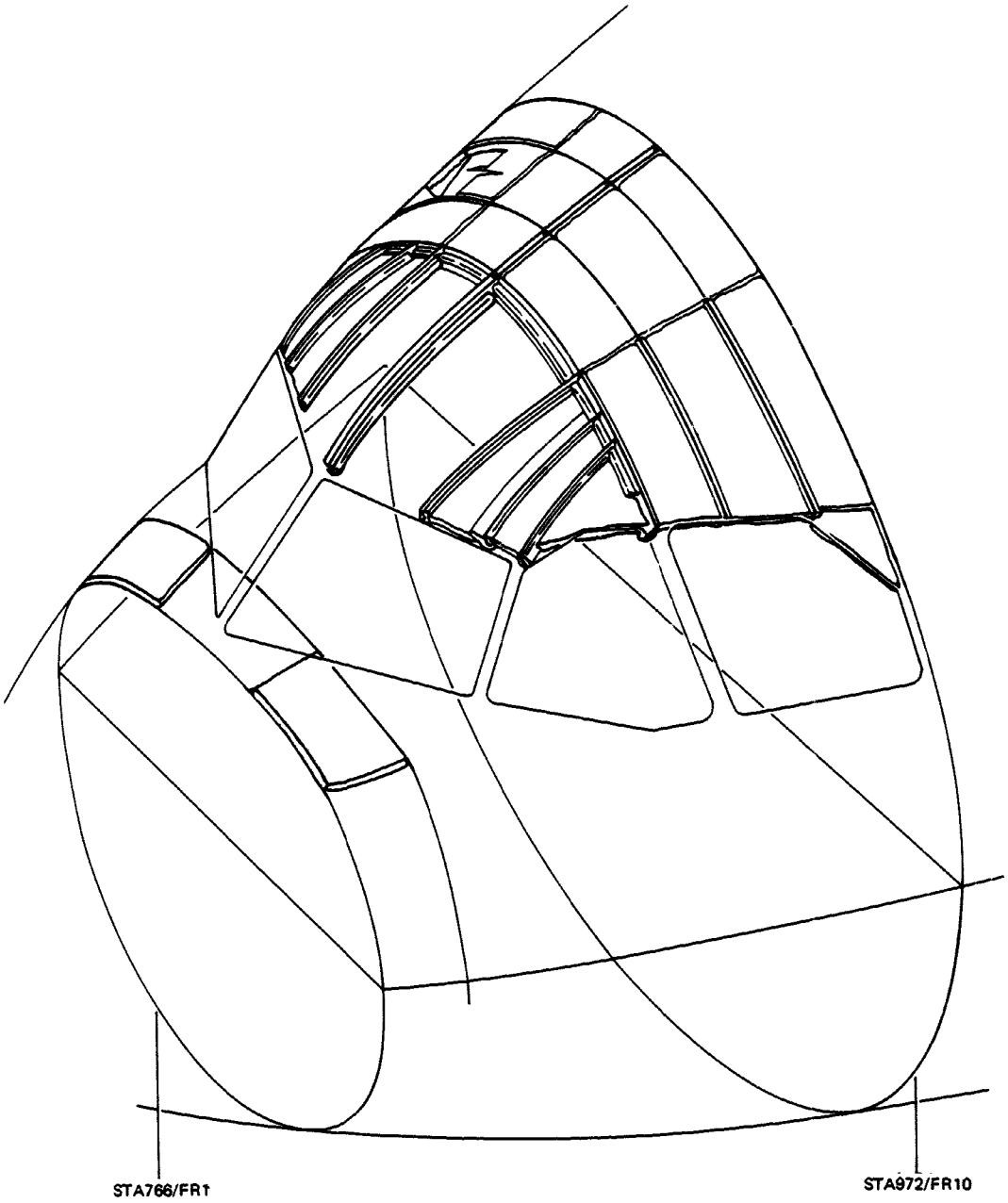
Heat and Sound Insulation - Side Walls and Ceiling between FR10 and FR11
Figure 002

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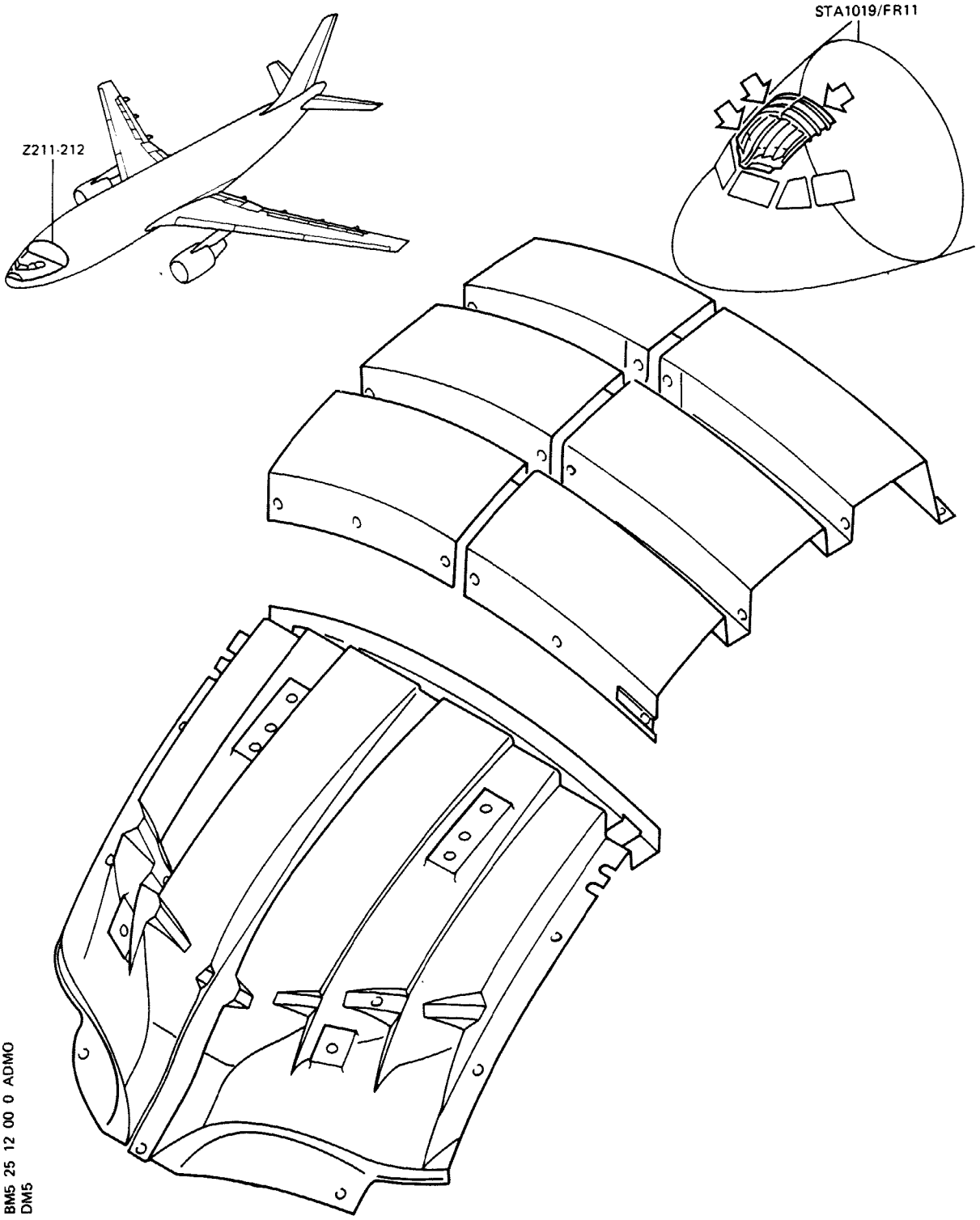
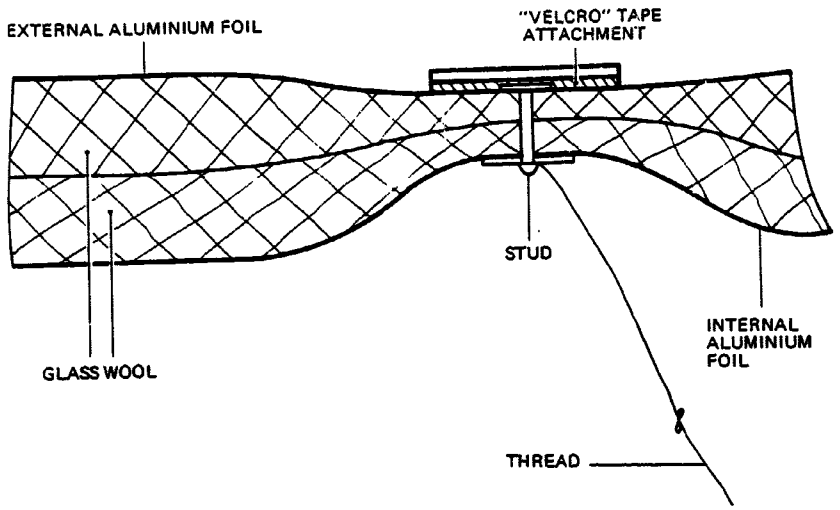
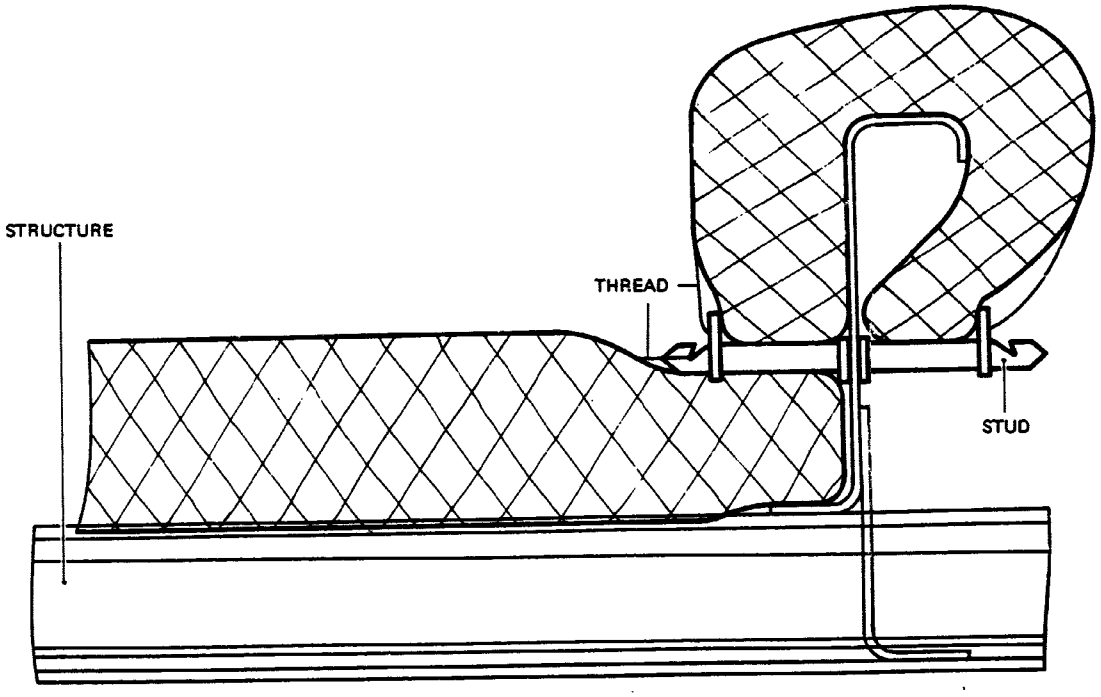
Heat and Sound Insulation - Ceiling between FR4 and FR10
Figure 003




Shield Assembly - Flight Compartment Ceiling
Figure 004




Heat and Sound Insulation Blanket
Figure 005

The side walls and ceiling between FR10 and FR11 are insulated by blankets composed of three layers of glass wool.
The insulation blankets are attached to the side walls below the side window frame members and to the ceiling between FR10 and FR11 by studs fixed to supports by two handtightened nuts. Each stud is fitted with a retainer for attaching the insulation blankets.

C. Heat and Sound Insulation Installation - Ceiling Between FR4 and FR10 (Ref. Fig. 003)
The ceiling is insulated between FR4 and FR10 by blankets composed of two layers of glass wool.
The blankets are attached to the ceiling structure by studs made of two parts, one of which is screwed into the other through the frame web.

D. Shield Assembly - Flight Compartment Ceiling between FR4 and FR10. (Ref. Fig. 004)
The insulation blankets are held against the ceiling by a laminated plastic shield assembly to prevent them from touching the overhead panel cable bundles
The shield assembly is attached with screws and washers to supports fixed to the ceiling structure.

1. Reason for the Job
Replacement of insulation blanket after removal of corresponding panel or console.

R 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. Material No. 05-016 | Thread (Ref. 20-31-00) |

R 3. Procedure

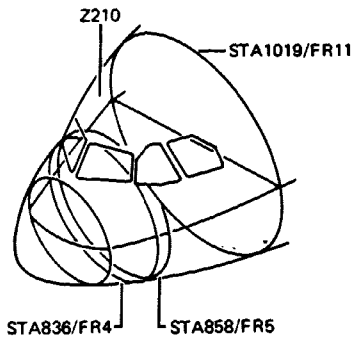
(Ref. Fig. 401)

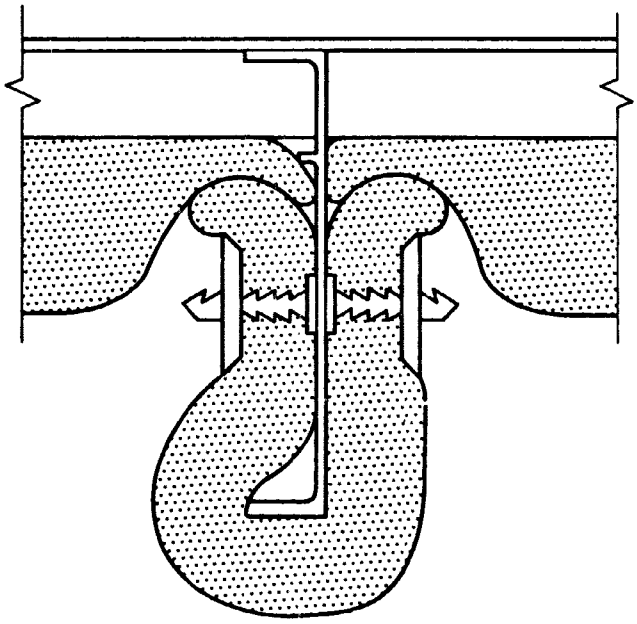
A. Job Set-Up
(1)Remove Flight Compartment ceiling shield assembly if replacement of the insulation blanket located under overhead panel is to be performed.

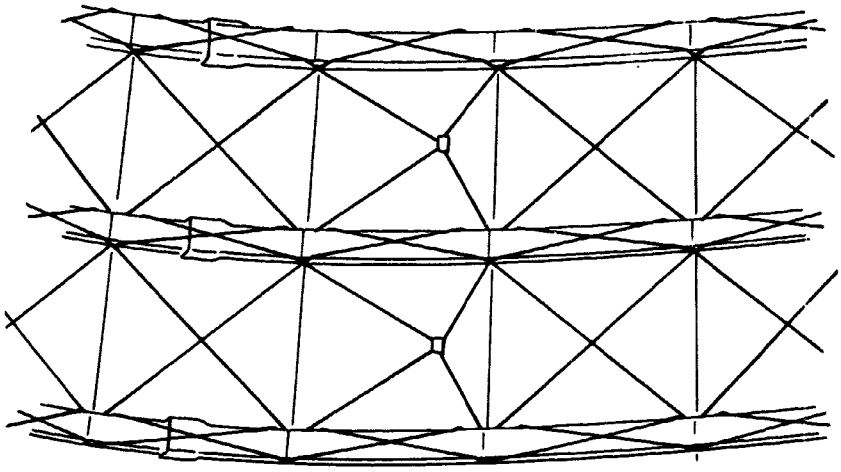
B. Removal
R (1)Remove retaining thread (Mat. No. 05-016).
(2)Remove damaged blanket.

C. Preparation of Replacement Component.
(1)Check that insulation blanket is clean, in good condition and correctly identified.
NOTE : The part number indicates the installation position.

D. Installation
NOTE : Position replacement blanket so that identification is visible.
(1)Make certain that insulation blanket attachment supports are not damaged.
(2)Position blanket.
R (3)Cross lace insulation blanket retaining thread (Mat. No. 05-016).





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Heat and Sound Insulation
Figure 401

## HEAT AND SOUND INSULATION - INSPECTION/CHECK

1. Reason for the Job
   Visual inspection of insulation blanket or ceiling shield assembly after removal of corresponding panel or side console.

2. Procedure

   A. Inspection/Check
      (1)Make certain that insulation blanket cover is not ripped or torn at edges.
      (2)Check that "Velcro" tape on attach fittings still adheres correctly.
      (3)Make certain that attachment studs are not broken.
      (4)Check that nylon threads support insulation blankets correctly.
      (5)Make certain that laminated plastic panels of ceiling shield assembly are not broken and are correctly attached.

# LINING AND FURNISHINGS - DESCRIPTION AND OPERATION

## 1. General

The heat and sound insulation is completed by lining and furnishing panels, which also provide flight compartment decoration. These are easily removable, so as to give access to the installations they conceal and are mostly interchangeable.
Various furnishings are fitted in the flight compartment for the comfort, convenience and safety of the crew.

## 2. Description

(Ref. Fig. 001, 002, 003)
(Ref. Fig. 004, 005, 006)
(Ref. Fig. 007)

**ON A/C 001-003,

(Ref. Fig. 008)

**ON A/C 001-100,

Post SB 35-2004 For A/C 001-003,

(Ref. Fig. 009)

**ON A/C 101-200,

(Ref. Fig. 010)

**ON A/C ALL

| ITEM | NAME | ZONE |
|---|---|---|
| LING 1 | Lining Installation - Ceiling between FR4 and FR10 (Ref. 25-13-11/25-13-12) | 210 |
| LING 2 | Lining Installation - Ceiling and Left Side Wall between FR10 and FR11 (Ref. 25-13-11/25-13-21/25-13-31) | 210 |
| LING 3 | Lining Installation - Ceiling between FR10 and FR10a and Partition Lining FR10a (Ref. 25-13-11/25-13-21/25-13-31) | 210 |
| LING 4 | Lining Installation - L and R Sliding Window Frame and Miscellaneous Equipment (Ref. 25-13-21) | 210 |
| LING 5 | Lining Installation - L and R Fixed Window Frame and Miscellaneous Equipment (Ref. 25-13-21) | 210 |
| LING 6 | Lining Installation and Miscellaneous Equipment | 210 |
| FURN 1 | Carpet Installation (Flight Compartment) (Ref. 25-13-41) | 210 |
| (1) | Holders - Map | 210 |

| ITEM | NAME | ZONE |
|---|---|---|
| (2) | Telephone Handset | 210 |
| (3) | Sunvisors - Side | 210 |
| (4) | Sunvisors - Front | 210 |
| (5) | Handles | 210 |
| (6) | Spare Bulb Box | 210 |

R **ON A/C 001-100,

| | | |
|---|---|---|
| (7) | Folding Seat | 210 |
| (8) | Stowage - Baggage | 210 |
| (9) | Folding Seat - Third Occupant | 210 |
| (10) | Bottle - Portable Oxygen | 210 |
| (11) | Axe | 210 |
| (12) | Microphone | 210 |

R **ON A/C 101-200,

| | | | |
|---|---|---|---|
| R | (7) | Folding Seat | 210 |
| R | (8) | Stowage - Baggage | 210 |
| R | (9) | Folding Seat - Third Occupant | 210 |
| R | (10) | Protective Breathing Hood | 210 |
| R | (11) | Axe | 210 |
| R | (12) | Microphone | 210 |
| R | (13) | Flashlight | 210 |
| R | (14) | Radio Emergency Beacon | 210 |

R **ON A/C 001-100,

Post SB 35-2004 For A/C 001-003,

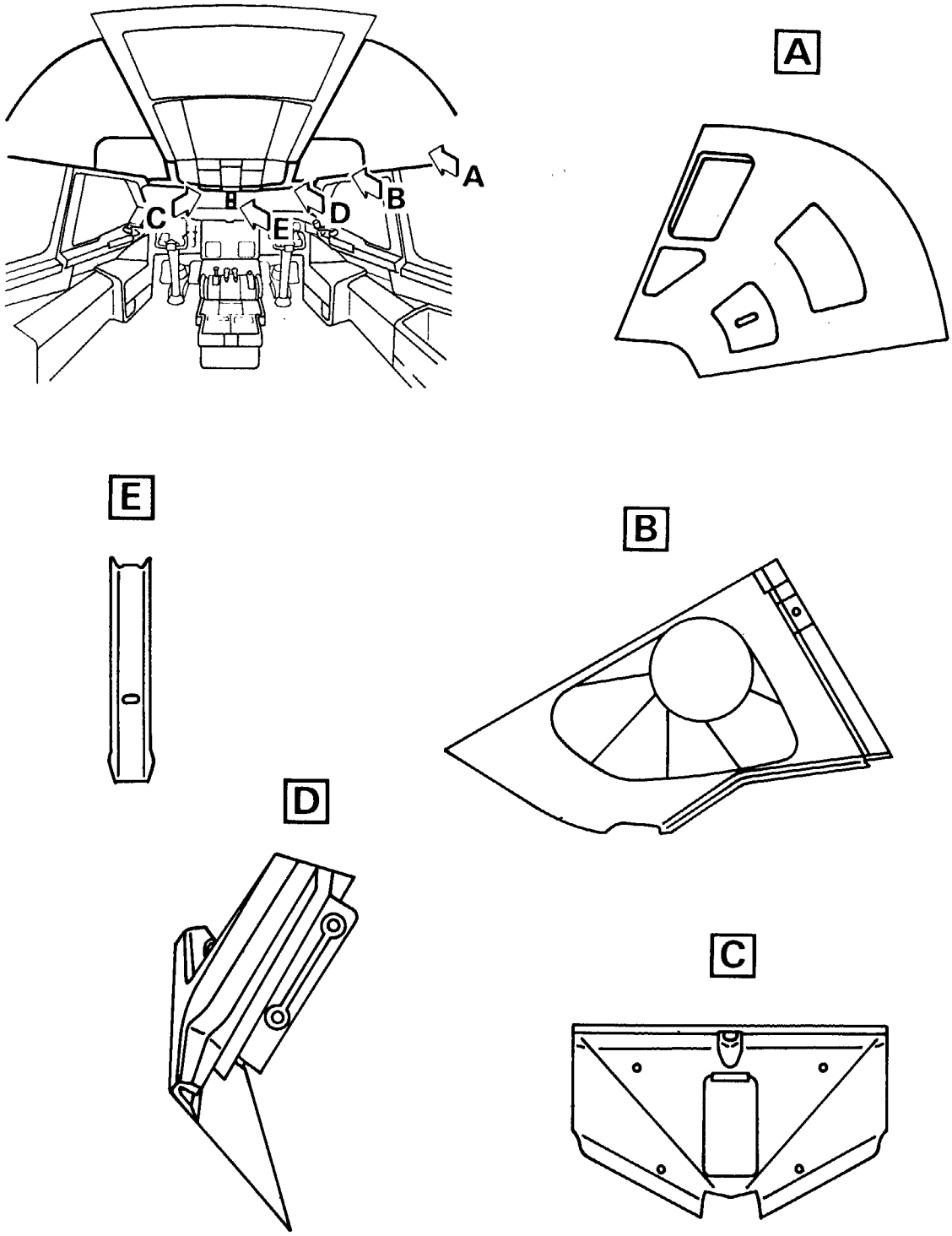
| | | |
|---|---|---|
| (13) | Protective Breathing Hood | 210 |

**ON A/C ALL

3. Lining Installations

A. Ceiling Lining Installations (Ref. Fig. 011)
The panels are made of laminated plastic. The back of each panel is fitted with a glass wool insulation blanket. The panel is stiffened by a laminated plastic edging, which is bonded to the panel. The insulation blanket is attached to the edging with a layer of double sided adhesive tape, covered by a layer of single sided adhesive tape. An elastomer retaining seal is bonded to the panel edging.

B. Side Wall Lining Installation
The side wall panels are made of the same materials as the ceiling panels,

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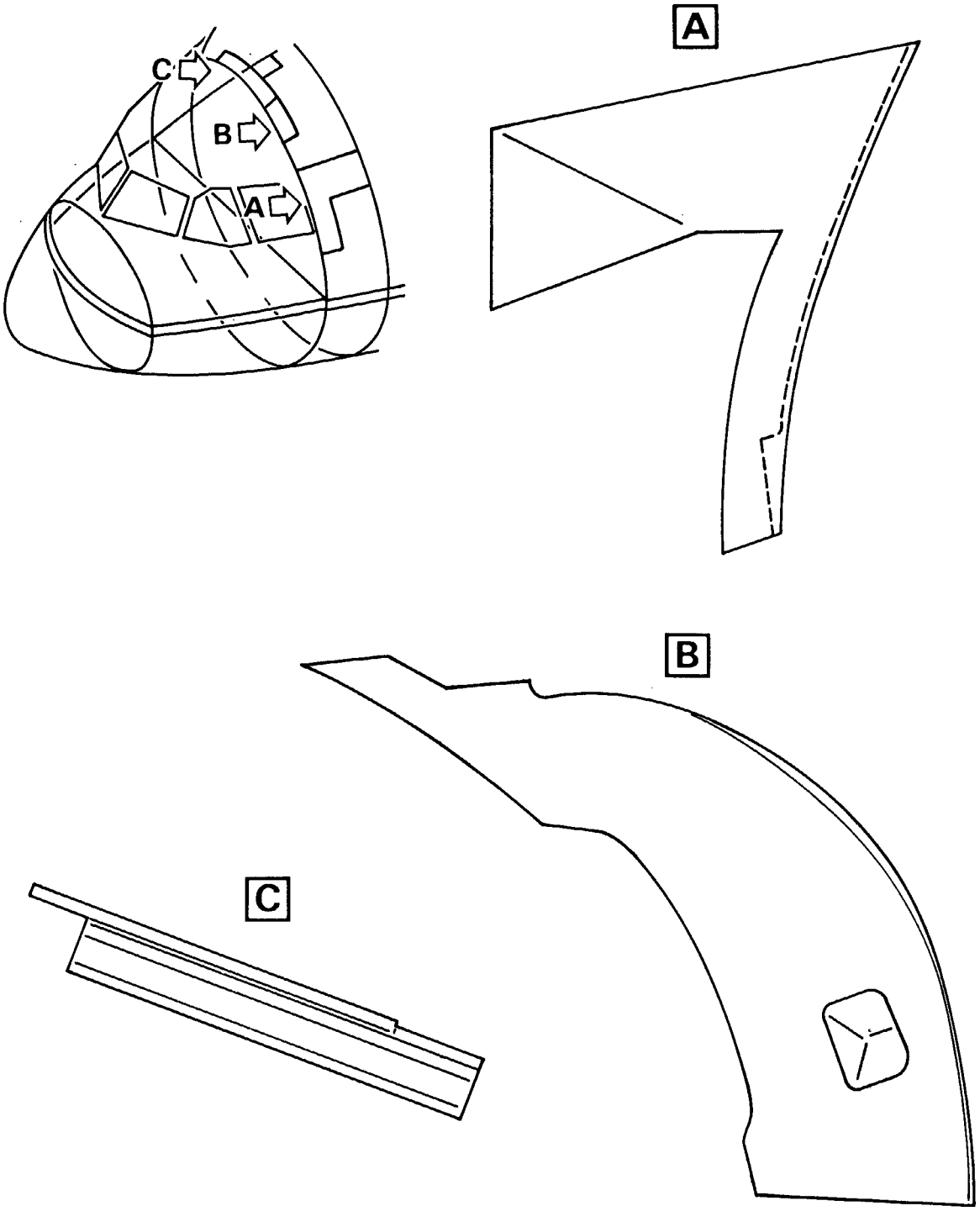
LING1 - Lining Installation - Ceiling between FR4 and FR10
Figure 001

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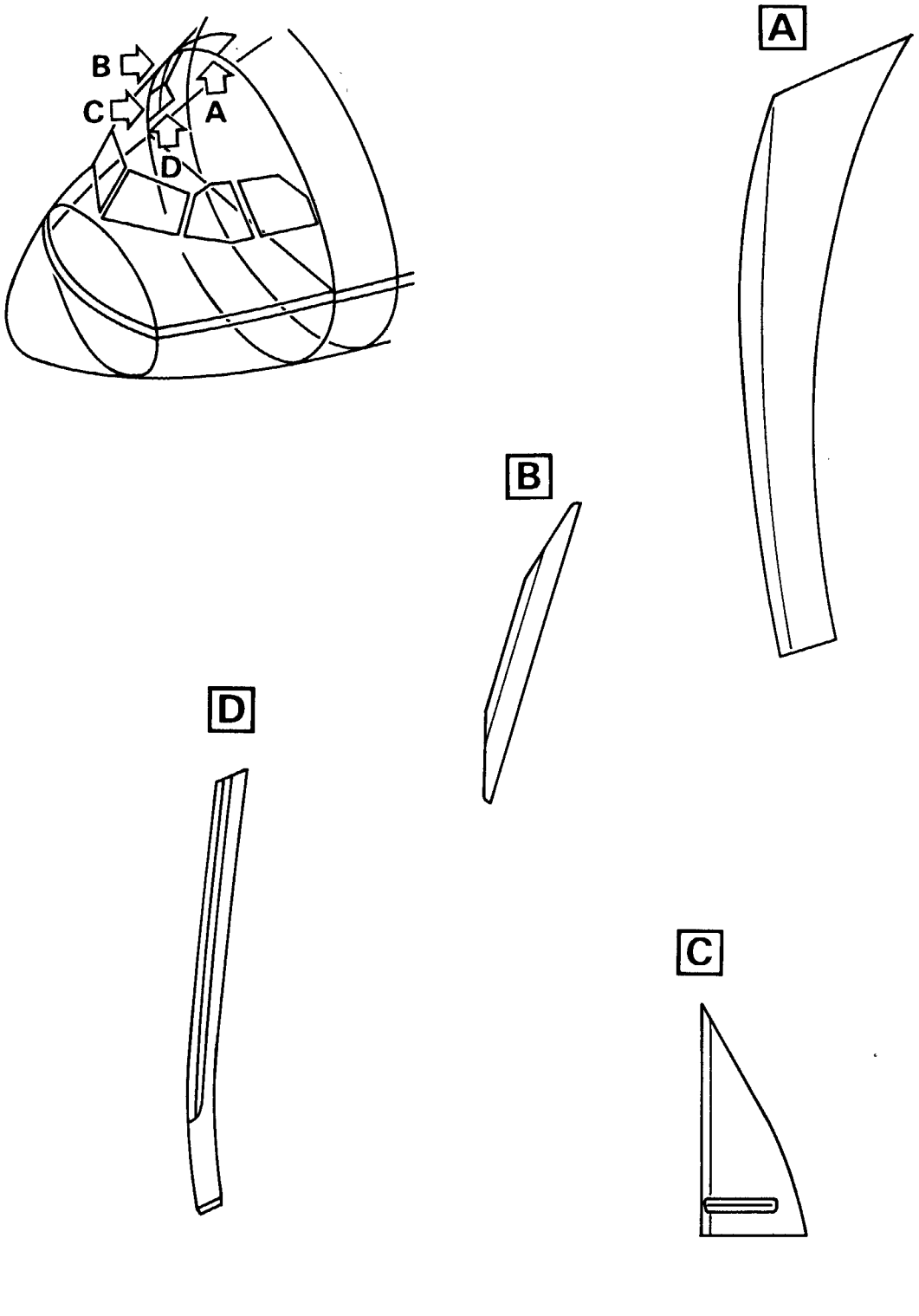
LING2 - Lining Installation - Ceiling and Left Side well between FR10 and FR11
Figure 002

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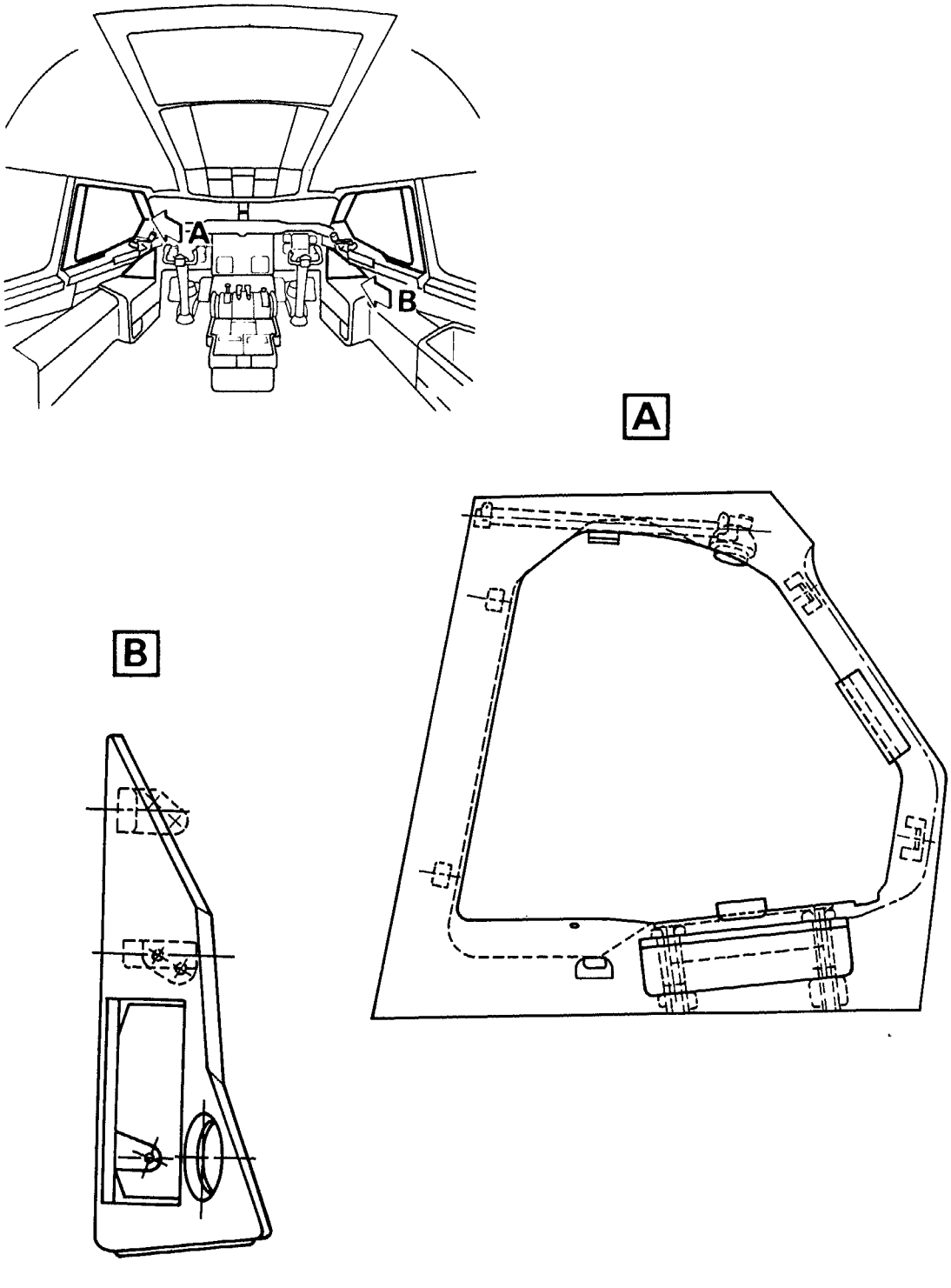
LING3 - Lining Installation - Ceiling between FR10 and FR10a and Partition Lining FR10a
Figure 003

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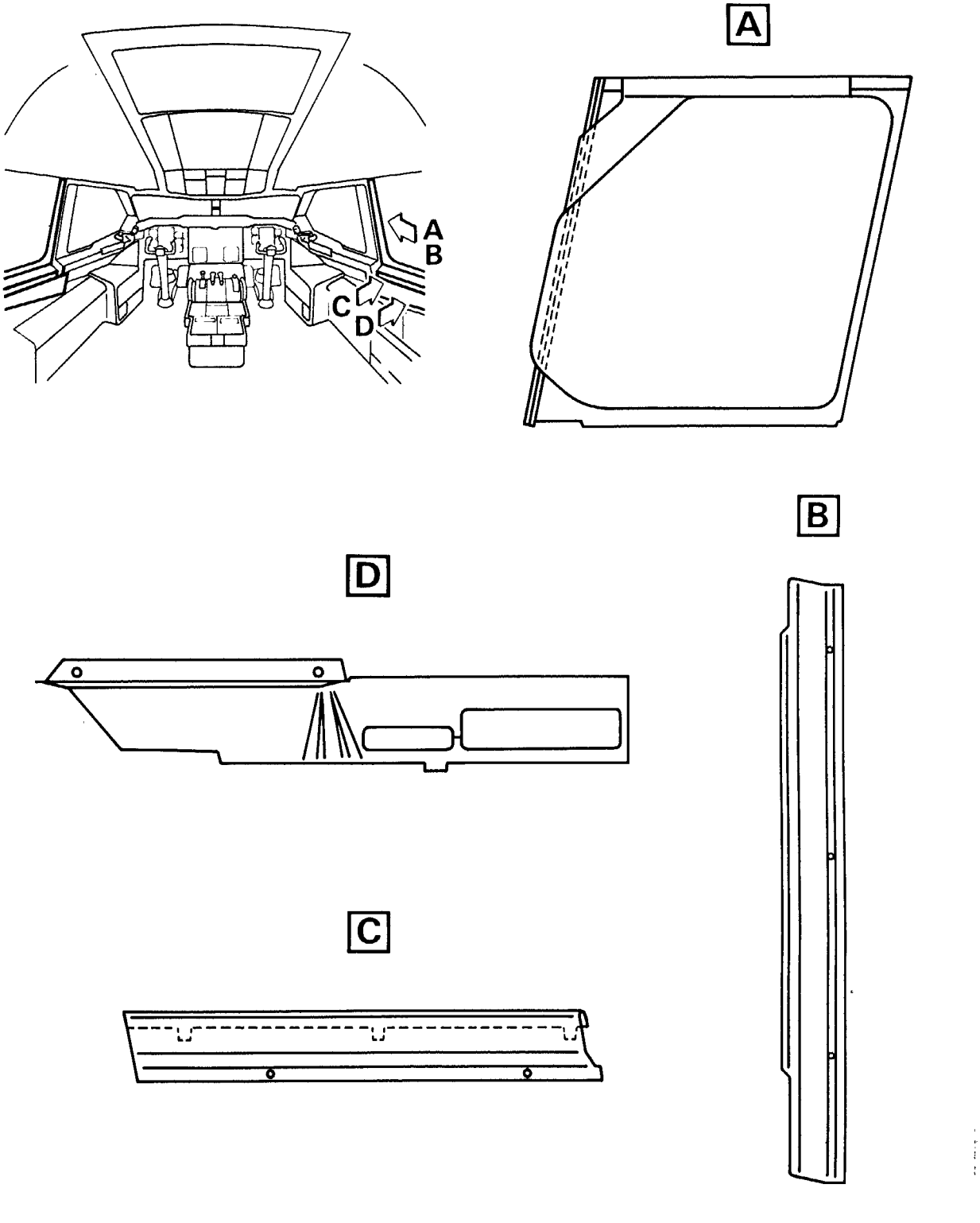
LING4 - Lining Installation - L and R Sliding Window Frame and Miscellaneous Equipment
Figure 004

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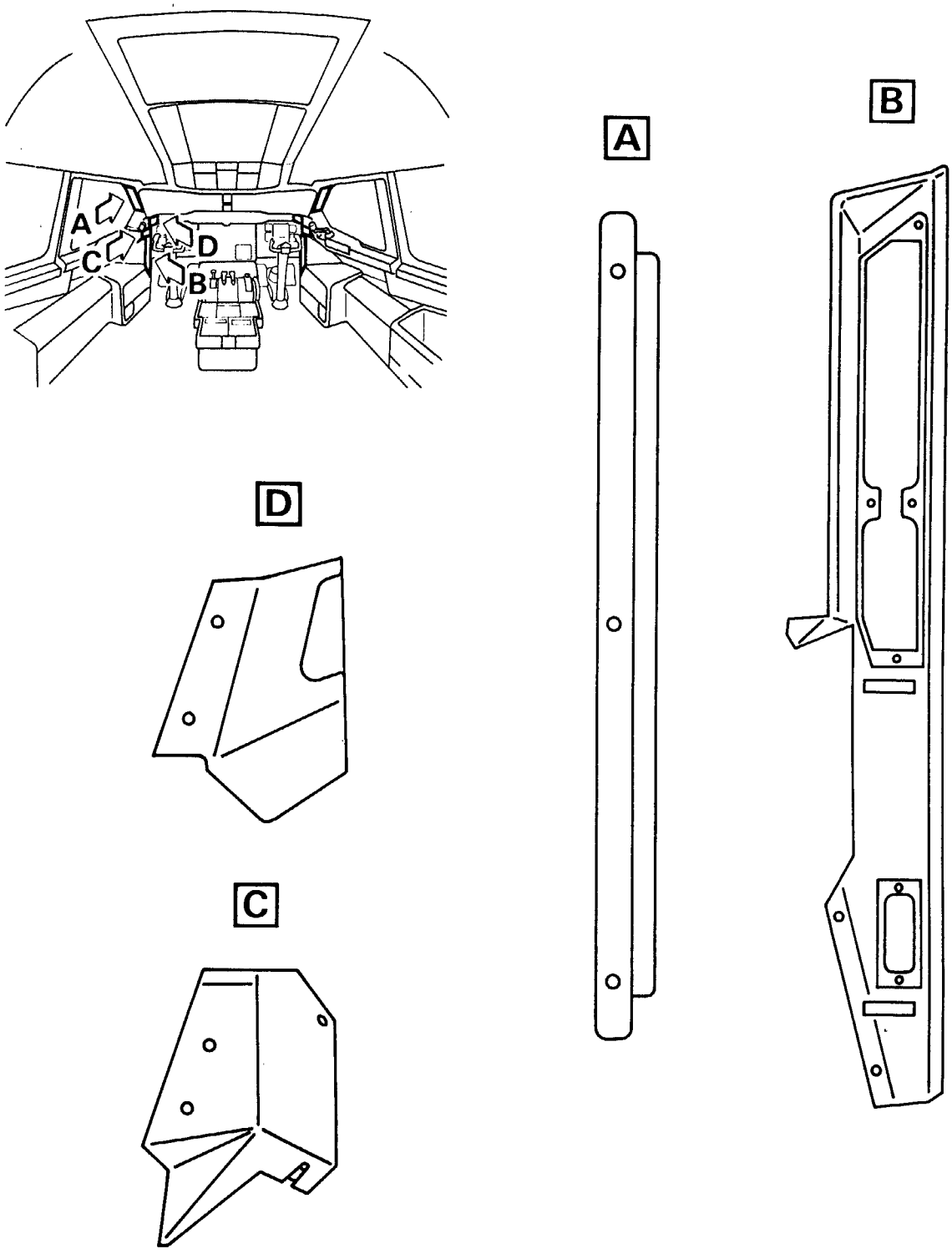
LING5 - Lining Installation - L and R Fixed Window Frame and Miscellaneous Equipment
Figure 005

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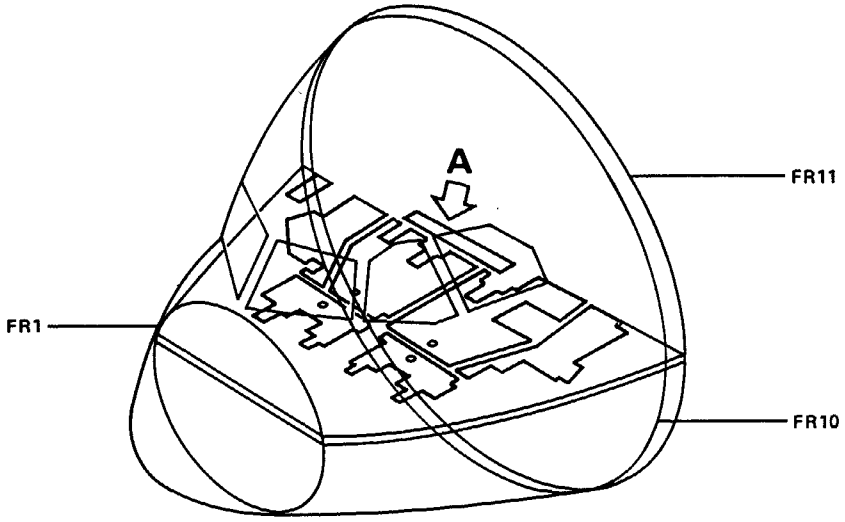
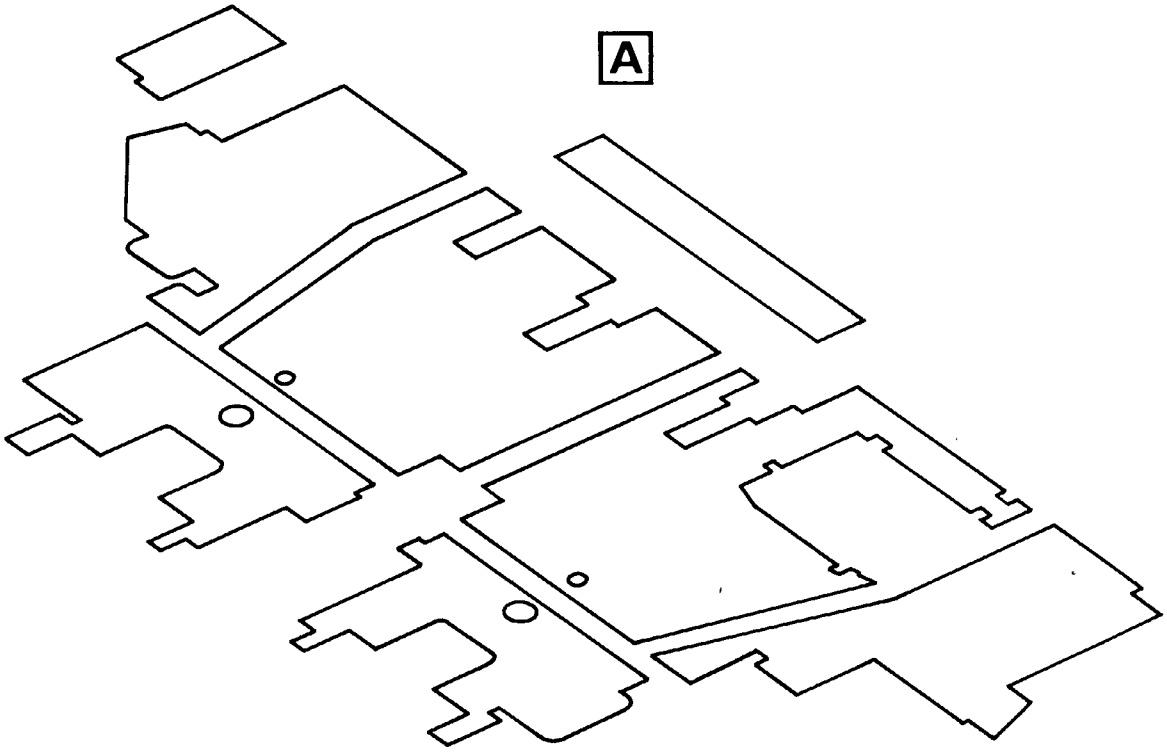
LING6 - Lining Installation and Miscellaneous Equipment
Figure 006

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FURN1 - Carpet Installation (Flight Compartment)
Figure 007

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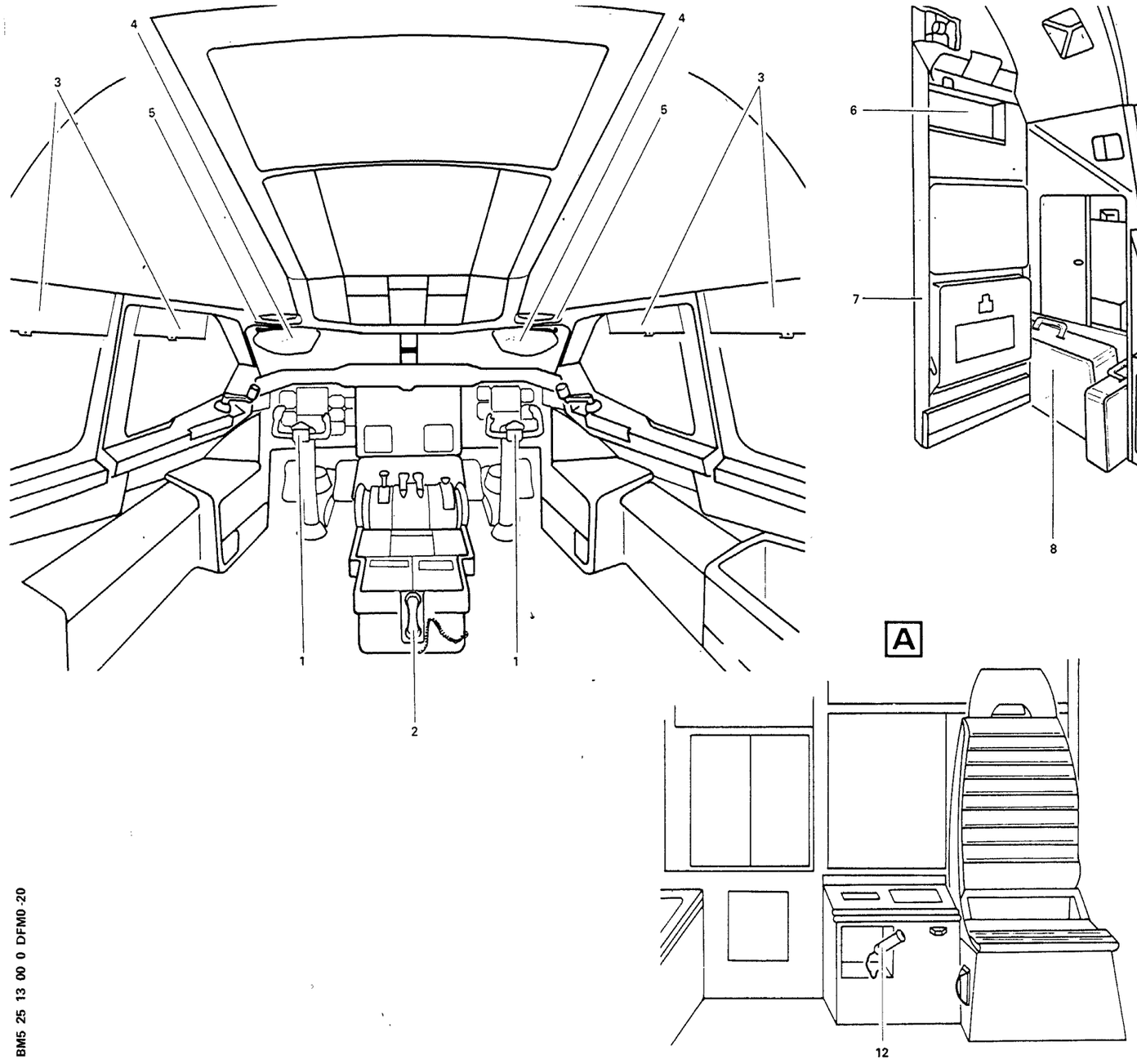


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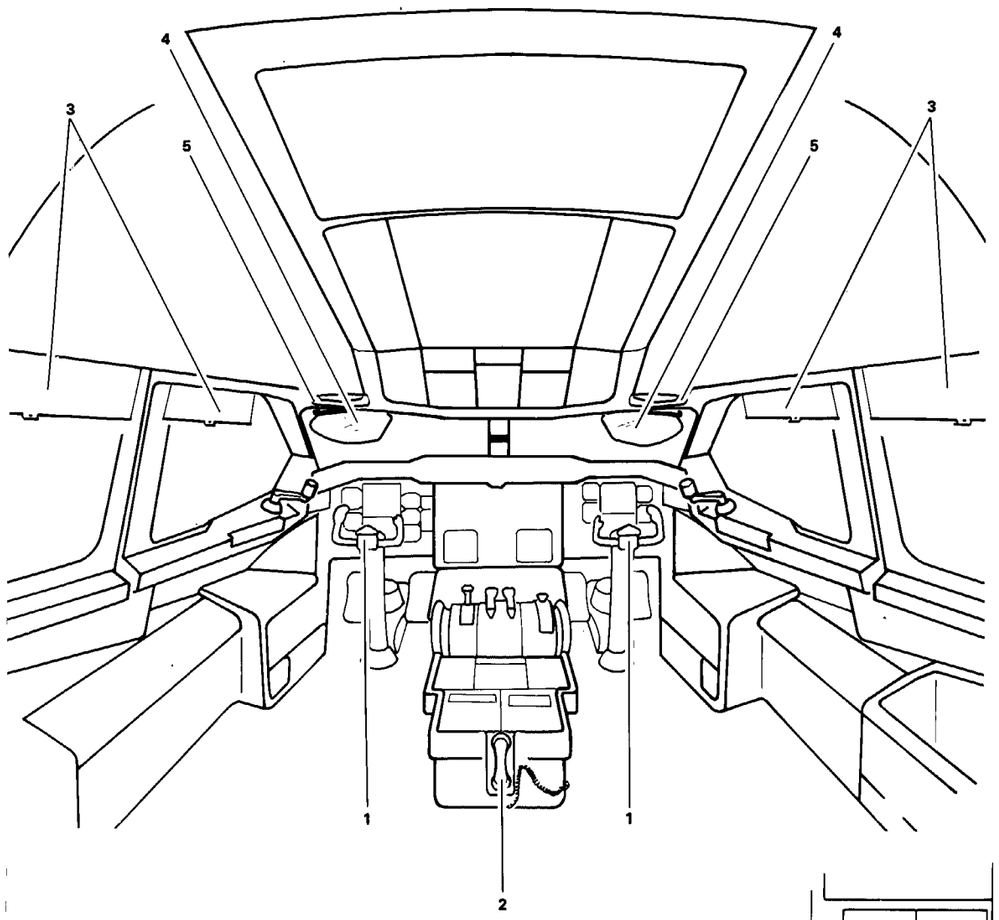
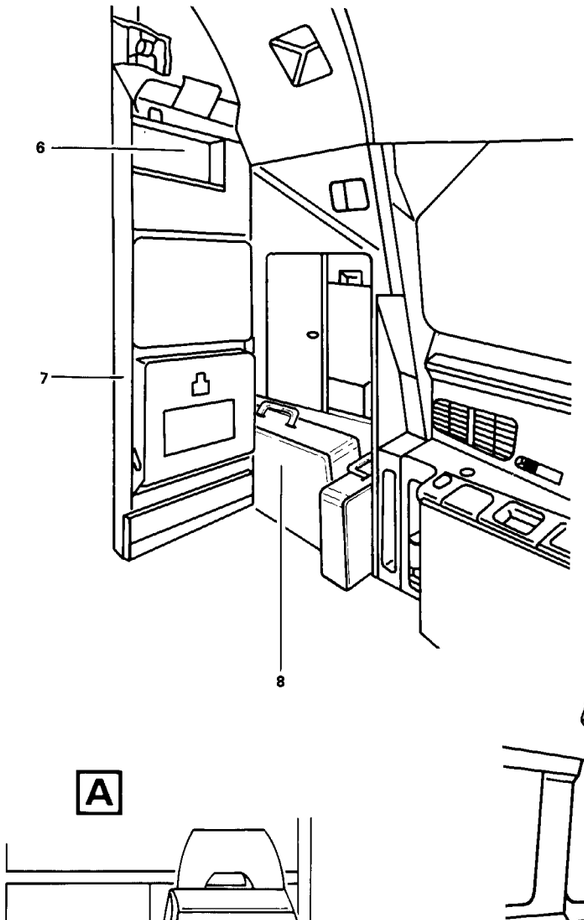
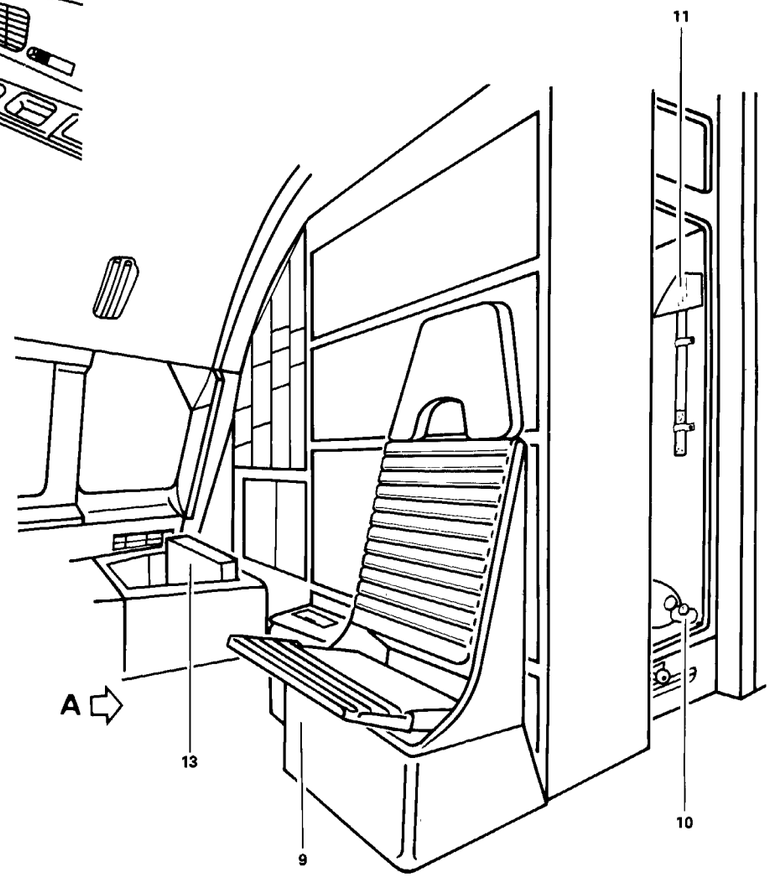
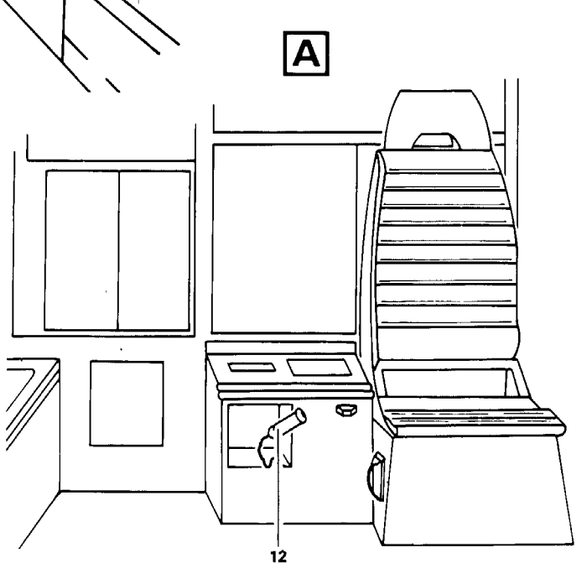
Equipment and Furnishings - Flight Compartment
Figure 008

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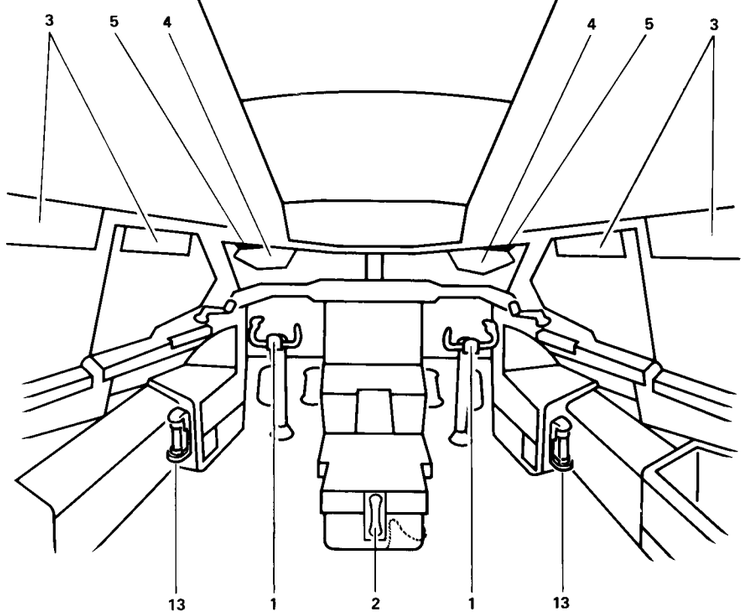
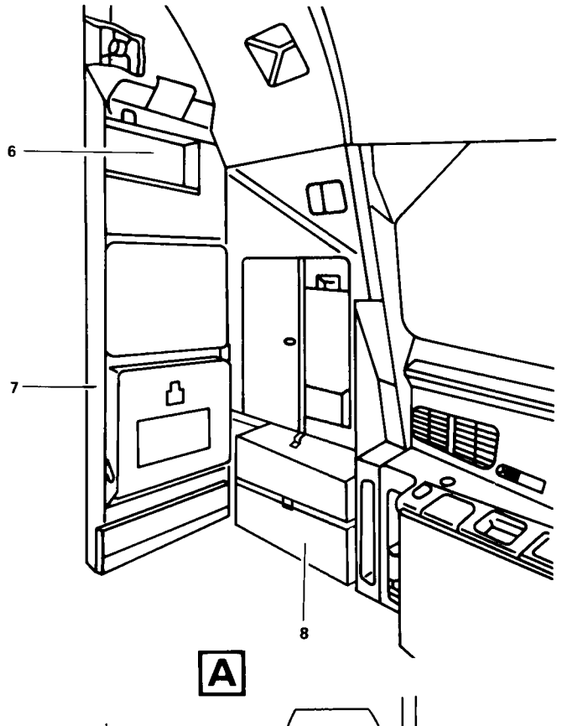
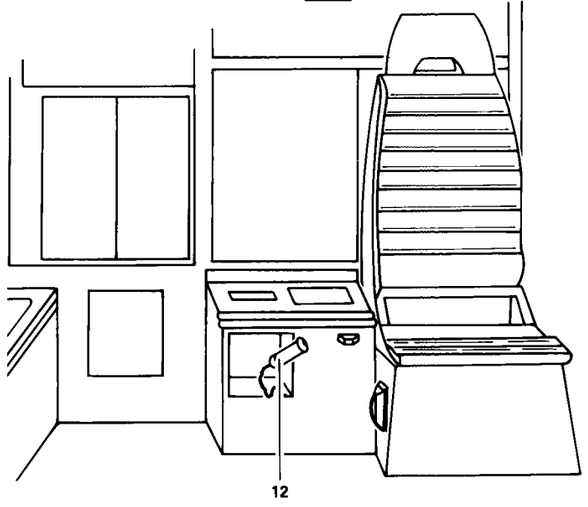
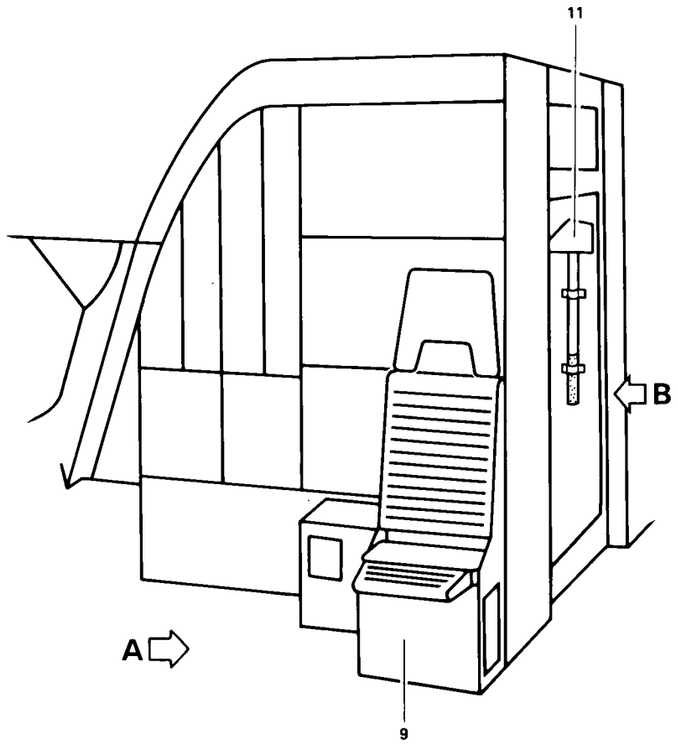
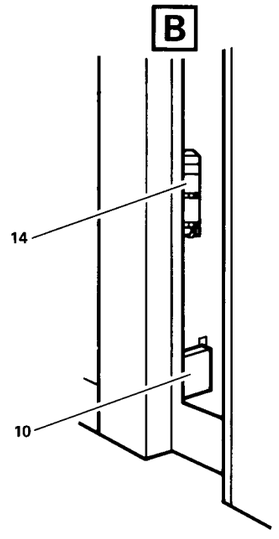
Equipment and Furnishings - Flight Compartment
Figure 009

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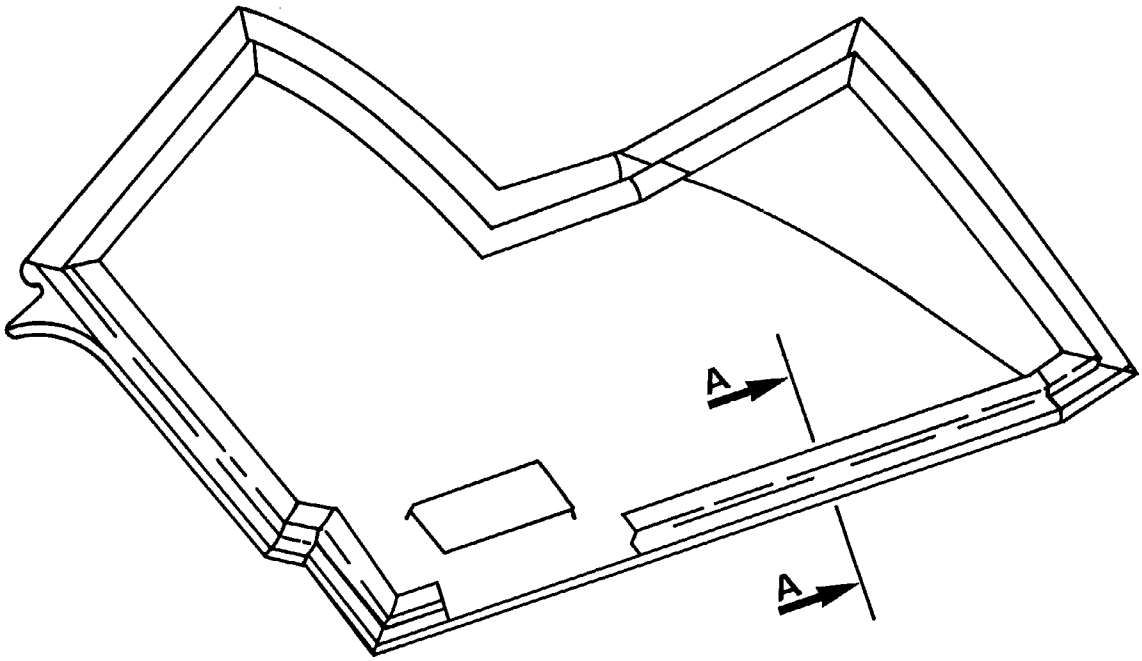
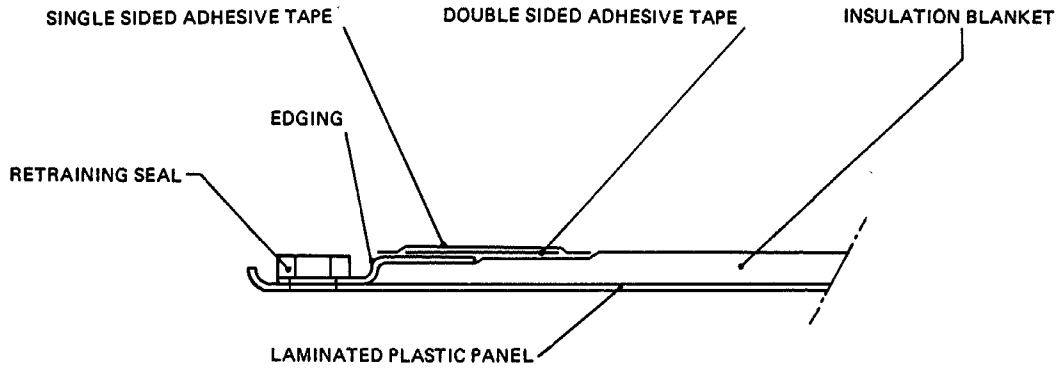
Equipment and Furnishings - Flight Compartment
Figure 010




SECTION A A

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Lining Panel - Ceiling
Figure 011

except for the panels on the outside left and right webs of the instrument panel center structural panel, which are not fitted with insulation blankets.

C. Sliding Window and Fixed Side Window Frame Lining Installations
The trimmings of the sliding window and fixed side window frame lining installations are also made of laminated plastic.

D. Instrument Panel Center Structural Panel Lining Installation
The panels on the center webs of the instrument panel central structural panel are made of a laminated honeycomb panel sandwiched between two laminated plastic panels.

E. Flight Compartment Carpets
The flight compartment is carpeted for the crew members' comfort, to provide sound insulation for the floor and for esthetic reasons. The carpets are made of PVC. A pattern is printed on the carpets and protected by a transparent film. The carpets are attached to the aft wall of the flight compartment with angle assemblies.

1. Cleaning of Foam Plastic (Polyurethane) Parts

WARNING : USE SOLVENTS/CLEANING AGENTS, SEALANTS AND OTHER SPECIAL MATERIALS ONLY WITH A GOOD FLOW OF AIR THROUGH THE WORK AREA. THESE MATERIALS ARE POISONOUS AND FLAMMABLE AND SKIN IRRITANTS. OBEY THE MANUFACTURERS INSTRUCTIONS.
PUT ON PROTECTIVE CLOTHING.
DO NOT GET THEM IN YOUR MONTH.
DO NOT SMOKE.
DO NOT BREATHE THE GAS.
GET MEDICAL HELP IF YOUR SKIN OR EYES BECOME IRRITATED.

A. Reason for the job
Self Explanatory

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Soft Brush |
| B. | Lint-free Cloth |
| C. | Soapy Water |
| D. Material No. 11-017 | Cleaning Agents (Ref. 20-31-00) |
| Referenced Procedure - 24-41-00, P. Block 301 | AC External Power Control |

C. Procedure
(1)Job Set-up
(a)Energize the ground service network (Ref. 24-41-00, P. Block 301).
(2)Cleaning
NOTE : If the foam plastic parts are damaged, send them to the vendor for repair.
(a)If the parts are stained with mud, chocolate, fruit juice, blood or sweet drinks :
- use a soft brush to clean them with soapy water (natural soap or 5% liquid detergent)
or
- use a lint-free cloth to clean them with Cleaning Agent (Material No. 11-017).
(b)If the parts are stained with ink, tar, engine oil or grease :
- use a lint-free cloth to clean them with Cleaning Agent (Material No. 11-017).

D. Close-up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(2)De-energize the ground service network (Ref. 24-41-00, P. Block 301).

R 2. Painting of Cockpit Interior Surface

R A. Reason for the job
R Self Explanatory

R B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Abrasive Cloth Grade 220 - 240 |
| B. | Masking Paper |
| C. | Masking Tape |
| D. Material No. 16-047 | ASNA 3687 Decorative Paint (Internal Applic.) |
| E. | Vacuum cleaner |
| Referenced Procedure | |
| - 24-41-00, P. Block 301 | AC External Power Control |

R C. Procedure
R (1)Job Set-up
R (a)Energize the ground service network (Ref. 24-41-00, P. Block 301).
R (2)Painting
R (a)Cover the area adjacent to the damage with the masking paper and masking tape.
R (b)Remove the damaged paint and primer coatings with abrasive cloth grade 220 - 240.
R NOTE : Make sure that the surface is smooth and flat.
R (c)Clean the prepared and adjacent areas with a vacuum cleaner to remove particles of dust and dirt.
R (d)Apply a thin layer of paint of the applicable color.
R NOTE : Make sure that the thickness is not more than
R 25 micrometers.
R (e)Remove the masking paper and masking tape.

R D. Close-up
R (1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
R (2)De-energize the ground service network (Ref. 24-41-00, P. Block 301).

# CEILING PANELS - REMOVAL/INSTALLATION

## 1. Reason for the Job

A. The panels are attached by screws to brackets or to the frames. They can be removed :
(1)For repair of panels or panel brackets
(2)For repair or maintenance of insulation, structural components and equipment concealed by panels.
(3)If necessary, to facilitate removal or installation of ceiling or lower side wall panels.
(4)For replacement.

## 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Access Platform 4.5 m (14 ft.9 in.) |
| Referenced Procedure<br>- 33-12-00, P. Block 501 | General Illumination |

## 3. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Open, safety and tag the following circuit breakers :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | EMER LT/CAPT PNL/FOOLD & DOME | 1LE | 205/E25 |
| 132VU | LIGHTING/INT LT/FLOOD/CAPT/SIDE | 4LE | 321/P77 |
| 132VU | LIGHTING/INT LT/FLOOD/PED &/OVHD | 42LE | 321/P76 |
| 132VU | LIGHTING/INT LT/FLOOD/F/O/SIDE | 52LE | 325/P78 |
| 132VU | DOME | 57LE | 325/k81 |
| 132VU | INT lt/storm | 58LE | 323/M84 |

B. Removal
(1)Remove attaching screws of relevant panel.
(2)Retain screws and washers.
CAUTION : IF PANEL IS FITTED WITH ELECTRICAL EQUIPMENT DISCONNECT RELEVANT CONNECTOR OR CONNECTORS.
(3)Remove panel.
NOTE : Where one or more panels are removed, it is recommended that the relevant panel or panels be identified to facilitate installation.

C. Installation
(1)Check that panel attachment brackets are in good condition.
(2)Check that all anchor nuts on brackets are in good condition.
(3)Make certain that panel positions correctly.
CAUTION : IF PANEL IS FITTED WITH ELECTRICAL EQUIPMENT CONNECT RELEVANT

CONNECTOR OR CONNECTORS.

(4)Loosely install panel with screws.

(5)Tighten screws progressively, installing washer between screw head and panel.

D. Close-Up

(1)Remove safety clips and tags and close circuit breakers 4LE and 52LE.

(2)If necessary, perform functional test of lights (Ref. 33-12-00, P. Block 501).

(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(4)Remove access platform.

## CEILING PANELS - INSPECTION/CHECK

1. Reason for the Job
   Particular attention should be paid to visual inspection of ceiling panels fitted with lights, loudspeakers or air conditioning grilles. This inspection is necessary during scheduled maintenance or in the presence of defects.

2. Procedure

   A. Inspection/Check
      (1)Inspection
         (a)Inspect ceiling panels, air conditioning grilles and ceiling light reflector housings for damage of any kind.
         (b)Inspect attachment of each panel.
         (c)Make certain that there are no cracks, breaks or other signs of damage on any panel.
         (d)Check panels for cleanliness.

# LATERAL LINING PANELS (FR5 TO FR10) - REMOVAL/INSTALLATION

## 1. Reason for the Job

A. The panels are attached by screws to brackets or to the frames. They can be removed :
(1)For repair of panels or panel brackets
(2)For repair or maintenance of insulation, structural components and equipment concealed by panels.
(3)If necessary, to facilitate removal or installation of upper or lower side wall panels
(4)For replacement.

## 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Access Platform 4.5 m (14 ft. 9 in.) |
| Referenced Procedure | |
| - 33-12-00, P. Block 501 | General Illumination |
| - 33-12-35, P. Block 401 | Reading and Map Table Lights - Removal/ Installation |

## 3. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Open, safety and tag the following circuit breakers :

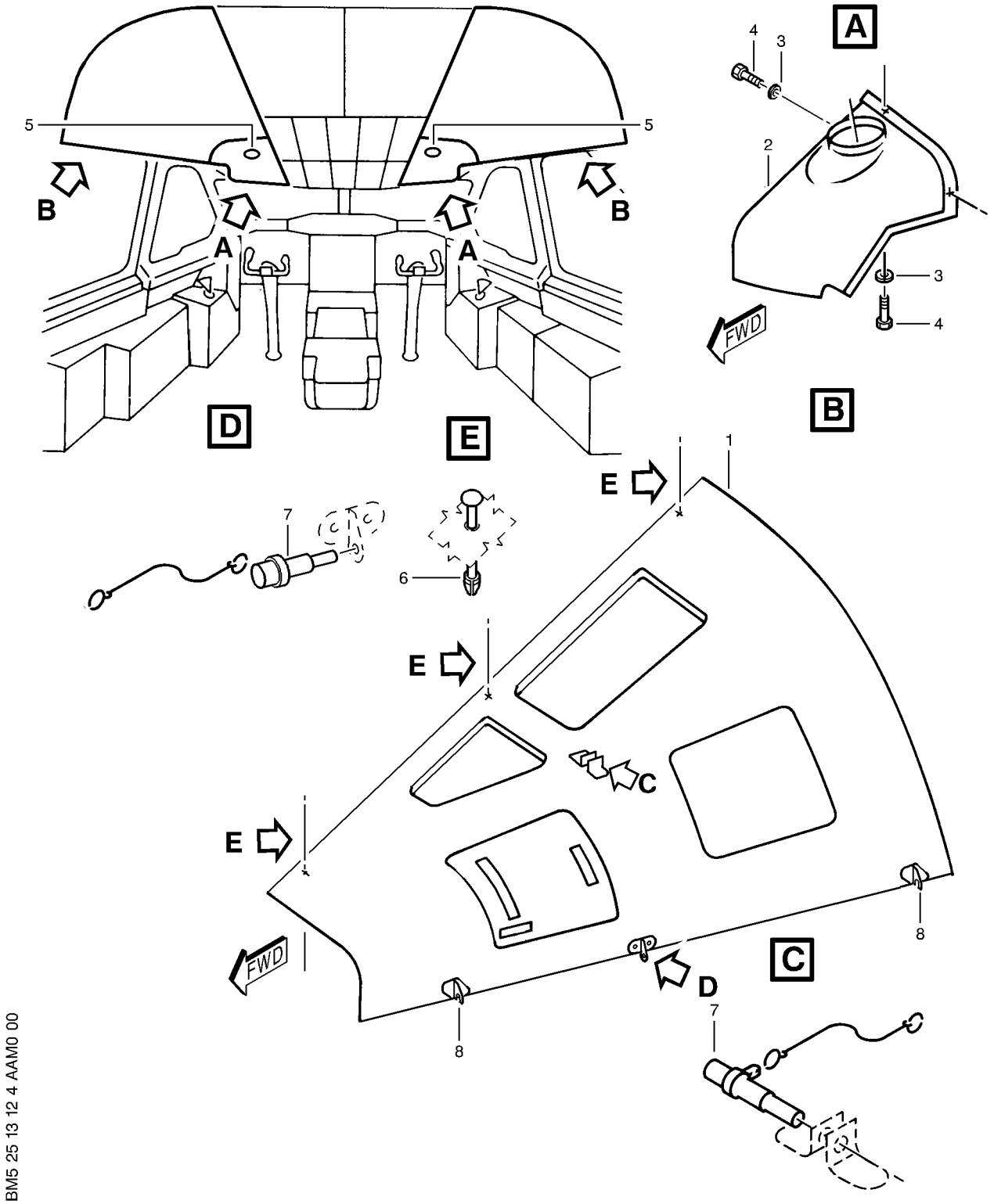
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | LIGHTING/INT LT/FLOOD/CAPT/SIDE | 4LE | 321/P77 |
| 132VU | LIGHTING/INT LT/FLOOD/F/O/SIDE | 52LE | 325/P78 |

B. Removal
(Ref. Fig. 401)

NOTE : Where one or more panels are removed, it is recommended to
R identify panels to facilitate installation.

(1)Removal of lining panel (2)
(a)Remove screws (4) and washers (3).
(b)Remove lining panel (2).
(c)Remove reading light (5) (Ref. TASK 33-12-35 P.Block 401).
(2)Removal of lining panel (1)
(a)Unlock ring-retaining pins (6).
(b)Swing lining panel (1) smoothly to access to pins (7).
(c)Detach pins (7) to free panel (1).
(d)Remove lining panel (1) from brackets (8).
(e)Remove lining panel (1).

C. Installation

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Lateral Lining Panel
Figure 401

NOTE : Where one or more panels are removed, it is recommended to
R identify panels to facilitate installation.

(1)Installation of lining panel (1)
(a)Put lining panel (1) in position.
(b)Install panel on brackets (8).
(c)Swing lining panel (1) smoothly to access to pins (7).
(d)Attach pins (7) to panel (1).
(e)Lock ring-retaining pins (6) on the panel (1).
(2)Installation of lining panel (2)
(a)Install reading light (5) (Ref. TASK 33-12-35 P.Block 401).
(b)Put lining panel (2) in position.
(c)Install two washers (3) and two screws (4), tighten them.

D. Close-Up
(1)Remove safety clips and tags and close circuit breakers 4LE, 52LE.
(2)If necessary, perform functional test of lights (Ref. 33-12-00, P. Block 501).
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(4)Remove access platform.

## FOOTREST - REMOVAL/INSTALLATION

**WARNING : CHECK THAT LANDING GEAR GROUND SAFETIES INCLUDING WHEEL CHOCKS ARE IN POSITION.**
**BEFORE APPLYING OR RELIEVING HYDRAULIC SYSTEM PRESSURE, MAKE CERTAIN THAT THE TRAVEL RANGES OF THE CONTROL SURFACES ARE CLEAR.**
**BEFORE PRESSURIZING HYDRAULIC SYSTEMS, CHECK THAT ALL CONTROLS ARE SET TO CORRESPOND WITH THE ACTUAL POSITION OF THE SERVICES THEY OPERATE.**
**BEFORE PROCEEDING WITH MAINTENANCE WORK ON OR NEAR MECHANICAL FLIGHT CONTROLS OR PRIMARY FLIGHT CONTROL SURFACES, LANDING GEARS, ASSOCIATED DOORS OR ANY MOVING COMPONENT, MAKE CERTAIN THAT GROUND SAFETIES AND/OR WARNING NOTICES ARE IN CORRECT POSITION TO PREVENT INADVERTENT OPERATION OF CONTROLS.**

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Blanking Plugs/Caps |
| C. | Adhesive Tape |
| D. | Cable Ties |
| E.98A32301010000 | Pin-Rigging |
| Referenced Procedures | |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-11-11, P. Block 401 | Captain Seat |
| - 25-11-12, P. Block 401 | First Officer Seat |
| - 29-21-00, P. Block 301 | Green Hydraulic Power |
| - 31-21-00, P. Block 501 | Clocks |
| - 33-13-00, P. Block 501 | Instrument and Panel Integral Lighting |
| - 33-16-00, P. Block 501 | Annunciator Light Dimming |
| - 34-25-00, P. Block 501 | Inertial Reference System (IRS) |
| - 34-48-00, P. Block 501 | Ground Proximity Warning System (GPWS) |
| - 34-71-00, P. Block 501 | Electronic Flight Instrument System (EFIS) |
| - 34-74-22, P. Block 401 | Primary Flight Display (PFD) |
| - 34-75-22, P. Block 401 | Navigation Display (ND) |

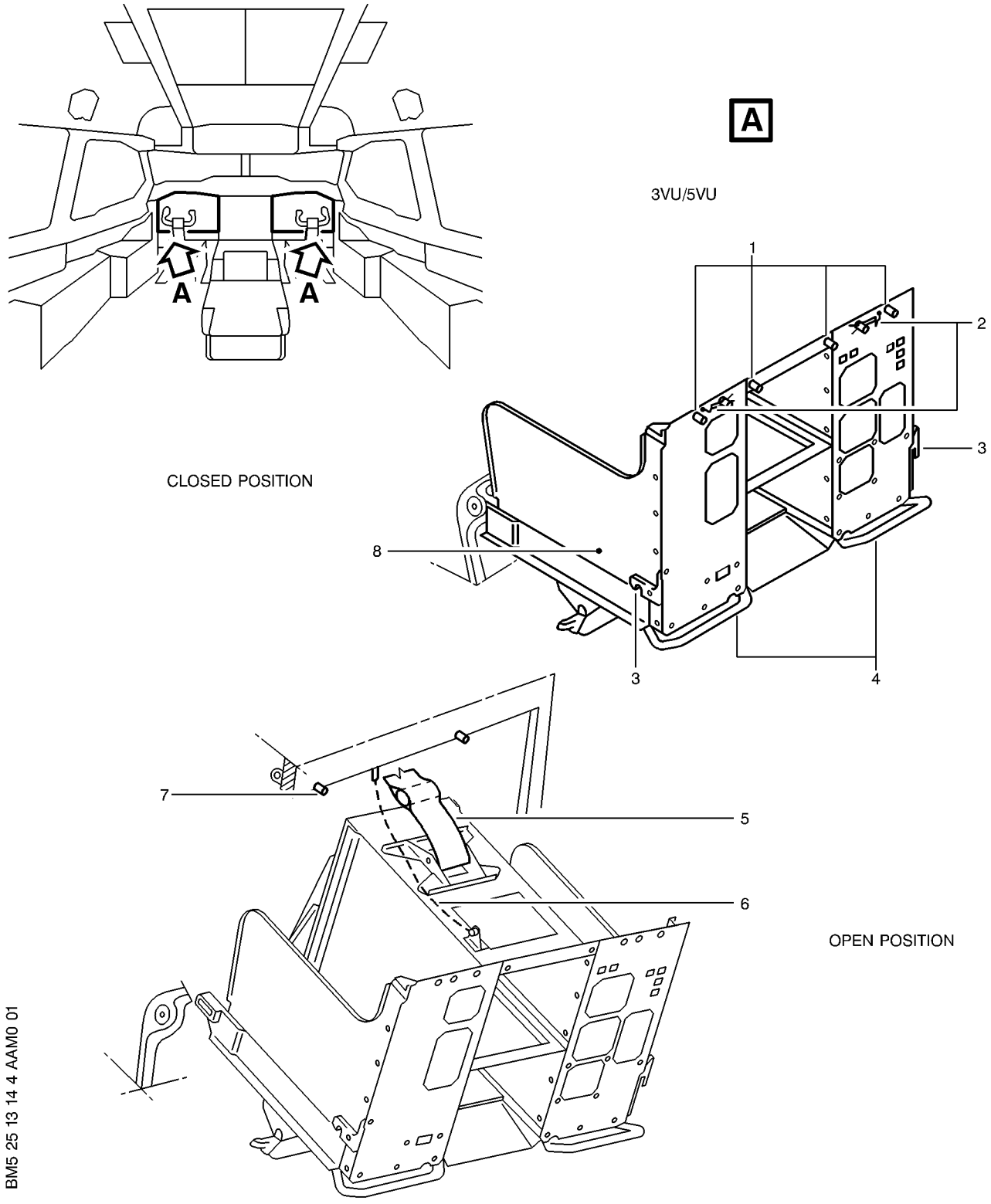
### 2. Procedure

(Ref. Fig. 401, 402)

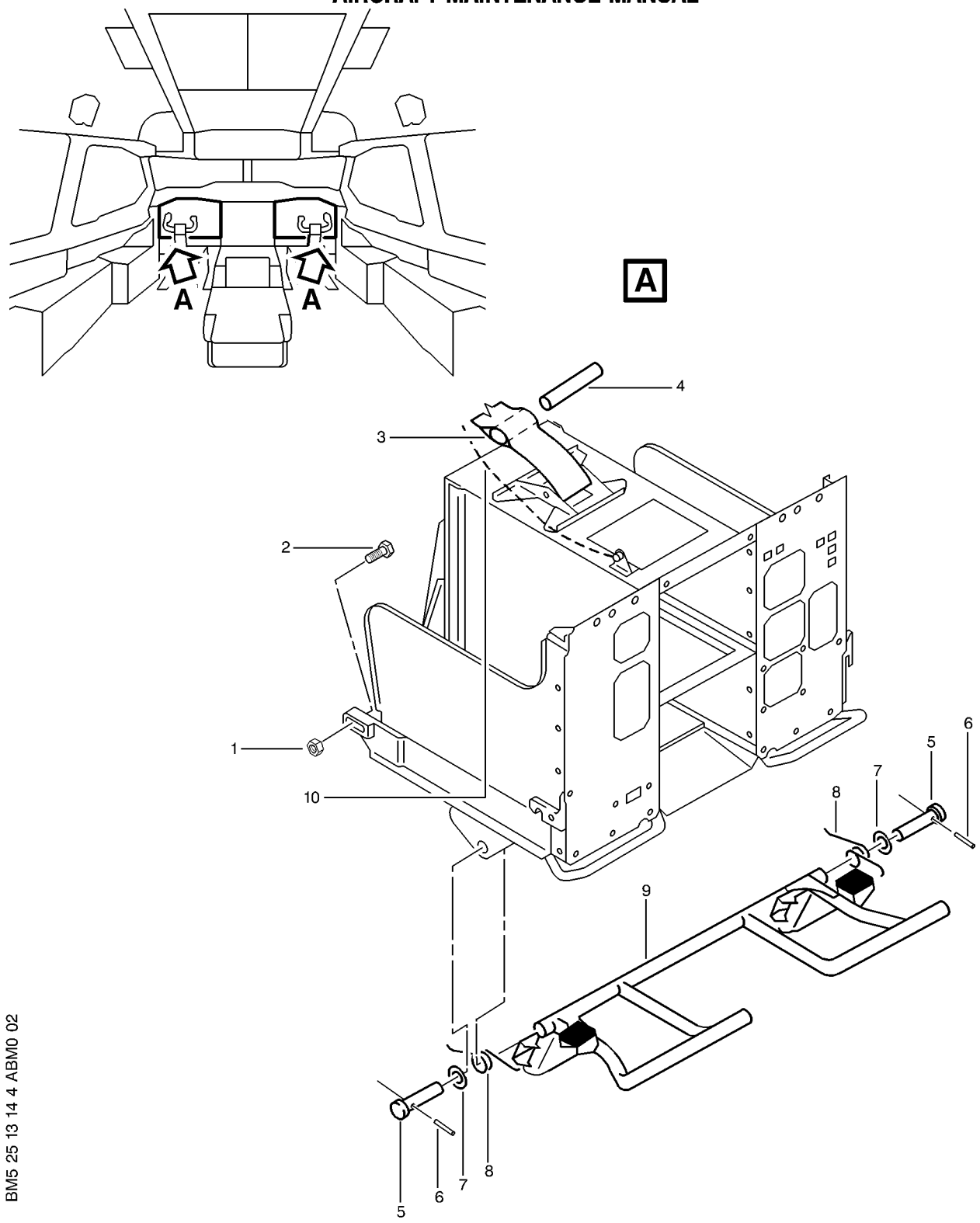
A. Job Set-Up

(1)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Pressurize green hydraulic system (Ref. 29-21-00, P. Block 301).
(4)Open access door 211PZ.
(5)Open, safety and tag the circuit breakers related to **NAVIGATION** on panels 21VU and 22VU, **CLOCKS** on panel 22VU and **LIGHTING/ANN LT/DIM** on panel 132VU.

B. Removal




Panel 3VU/5VU Opening/Closing
Figure 401

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Footrest Removal/Installation
Figure 402

R

NOTE : The following procedure is for Captain main instrument panel 3VU and Captain footrest. For First Officer main instrument panel 5VU and First Officer footrest, refer to information between parentheses.

(1)Remove Captain seat (3MS) (Ref. 25-11-11, P. Block 401) (First Officer seat (4MS) (Ref. 25-11-12, P. Block 401)).

(2)Remove Captain PFD (34FN1) on panel 3VU (First Officer PFD (34FN2) on panel 5VU) (Ref. 34-74-22, P. Block 401) and Captain ND (36FN1) on panel 3VU (First Officer ND (36FN2) on panel 5VU) (Ref. 34-75-22, P. Block 401).

(3)Open panel 3VU (5VU).
(Ref. Fig. 401)
(a)Loosen the four screws (1).
(b)Remove the two safety clips (2).
(c)Disengage locks (3).
(d)Grip the two footrests (4), pull out panel (8).
(e)Tilt panel by 20° approx. downwards (the panel is then held by retaining cable (6)).

(4)Disconnect electrical connectors and air pressure lines from back of panel. Mark their location.

(5)Install blanking plugs/caps on the disconnected electrical connectors and on open line ends.

(6)Cut cable ties as necessary and mark their location.

(7)Move panel 3VU (5VU) upwards.

(8)Detach retaining cable (6) from panel 3VU (5VU).
(Ref. Fig. 402)

(9)In avionics compartment :
- loosen straps of ventilation ducts and disconnect ducts. Detach the two bonding straps,
- install adhesive tape on ventilation ducts,
- remove the two bolts (2) and the two nuts (1) at the back of panel 3VU (5VU).

(10)In flight compartment :
- tilt panel 3VU (5VU) downwards,
- install rigging pin 98A32301010000 (4) on band (3),
- detach band (3) from panel 3VU (5VU),
- move Captain (First Officer) control column backward to get enough space for removal of panel 3VU (5VU). Pull panel upwards and remove it,
NOTE : The weight of panel 3VU (5VU) is about 30 Kg (66 lbs).
- remove the two taper pins (6) at the bottom of panel 3VU (5VU),
- remove bolts (5), washers (7) and springs (8),
- remove footrest (9).

C. Installation
(Ref. Fig. 402)

(1)Put footrest (9) in position.

(2)Install springs (8), washers (7) and bolts (5).

(3)Install the two taper pins (6).

(4)Move Captain (First Officer) control column backward and put panel 3VU (5VU) in position.

(5)Attach band (3) to panel 3VU (5VU).

(6)Remove rigging pin 98A32301010000 (4) from band (3).
(7)Pull panel 3VU (5VU) upwards.
(8)In avionics compartment :
- install the two bolts (2) and the two nuts (1) and tighten,
- remove adhesive tape from ventilation ducts,
- connect ventilation ducts and tighten straps,
- attach the two bonding straps.

(9)In flight compartment :
- attach retaining cable (10) to panel 3VU (5VU),
- tilt panel 3VU (5VU) by 20° approx. downwards,
- remove blanking plugs/caps from the disconnected electrical connectors and from open line ends,
- connect electrical connectors and air pressure lines at the previous location,
- install new cable ties at the previous location (Ref. Fig. 401),
- close panel 3VU (5VU) :
  . move panel upwards, and position it on retaining pins (7),
  . engage locks (3),
  . install the two safety clips (2),
  . tighten the four screws (1).
- install Captain PFD on panel 3VU (First Officer PFD on panel 5VU) (Ref. 34-74-22, P. Block 401) and Captain ND on panel 3VU (First Officer ND on panel 5VU) (Ref. 34-75-22, P. Block 401),
- install Captain seat (Ref. 25-11-11, P. Block 401) (First Officer seat (Ref. 25-11-12, P. Block 401)).

D. Test
Carry out the following tests :
- operational test of IRS (Ref. 34-25-00, P. Block 501),
- operational test of GPWS (Ref. 34-48-00, P. Block 501),
- operational test of EFIS (Ref. 34-71-00, P. Block 501),
- operational test of Instrument and Panel Integral Lighting (Ref. 33-13-00, P. Block 501),
- operational test of Annunciator Light Dimming (Ref. 33-16-00, P. Block 501),
- operational test of Clocks (Ref. 31-21-00, P. Block 501).

E. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(2)Close access door 211PZ.
(3)Remove safety clips and tags and close circuit breakers previously opened.
(4)Depressurize green hydraulic system (Ref. 29-21-00, P. Block 301).
(5)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

# UPPER SIDEWALL PANELS - REMOVAL/INSTALLATION

## 1. Reason for the Job

A. The panels are attached by screws to brackets or to the frames. They can be removed :
(1)For repair of panels or panel brackets
(2)For repair or maintenance of insulation, structural components and equipment concealed by panels.
(3)If necessary, to facilitate removal or installation of ceiling or lower side wall panels.
(4)For replacement.

## 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Access Platform 4.5 m (14 ft.9 in.) |
| Referenced Procedure<br>- 33-12-00, P. Block 501 | General Illumination |

## 3. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Open, safety and tag the following circuit breakers :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | LIGHTING/INT LT/FLOOD/F/O/SIDE | 52LE | 321/P78 |
| 132VU | LIGHTING/INT LT/FLOOD/CAPT/SIDE | 4LE | 321/P77 |

B. Removal
(1)Remove attaching screws of relevant panel.
(2)Retain screws and washers.
CAUTION : IF PANEL IS FITTED WITH ELECTRICAL EQUIPMENT DISCONNECT RELEVANT CONNECTOR OR CONNECTORS.
(3)Remove panel.
NOTE : Where one or more panels are removed, it is recommended that the relevant panel or panels be identified to facilitate installation.

C. Installation
(1)Check that panel attachment brackets are in good condition.
(2)Check that all anchor nuts on brackets are in good condition.
(3)Make certain that panel positions correctly.
CAUTION : IF PANEL IS FITTED WITH ELECTRICAL EQUIPMENT CONNECT RELEVANT CONNECTOR OR CONNECTORS.
(4)Loosely install panel with screws.
(5)Tighten screws progressively, installing washer between screw head and panel.

D. Close-Up
(1)Remove safety clips and tags and close circuit breakers 4LE and 52LE.
(2)If necessary, perform functional test of lights (Ref. 33-12-00, P. Block 501).
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(4)Remove access platform.

## UPPER SIDEWALL PANELS - INSPECTION/CHECK

1. Reasons for the Job

Particular attention should be paid to visual inspection of upper sidewall panels.
This inspection is necessary during scheduled maintenance or in the presence of defects.

2. Procedure

A. Inspection/Check
(1) Inspection
(a) Inspect upper sidewall panels for damage of any kind
(b) Inspect attachment of each panel.
(c) Make certain that there are no cracks, breaks or other signs of damage on any panel.
(d) Check each panel for cleanliness.

# LOWER SIDEWALL PANELS - REMOVAL/INSTALLATION

## 1. Reason for the Job

A. The panels are attached by screws to brackets or to the frames. They can be removed :
(1)for repair of panels or panel brackets.
(2)for repair or maintenance of insulation, structural components and equipment concealed by panels.
(3)if necessary, to facilitate removal or installation of upper side wall panels.
(4)for replacement.

## 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform 4.5 m (14 ft. 9 in.) |
| R Referenced Procedures | |
| R - 27-21-00, P. Block 501 | Mechanical Control (Rudder) |

## 3. Procedure

A. Job Set-up
(1)Position access platform.

B. Removal
(1)Remove attaching screws of relevant panel.
(2)Retain screws and washers.
(3)Remove panel.

C. Installation
(1)Check that panel attachment brackets are in good condition.
(2)Check that all anchor nuts on brackets are in good condition.
(3)Make certain that panel positions correctly.
(4)Loosely install panel with washers and screws.
(5)Tighten screws progressively.

R D. Test
R (1)To avoid any interference between rudder pedals and lower sidewall
R panels :
R (a)Put pedal assembly in maximum forward position.
R (b)Perform operational/functional test of rudder control
R (Ref. 27-21-00, P. Block 501).
R (c)Put pedal assembly in mid position.
R (d)Perform operational/functional test of rudder control
R (Ref. 27-21-00, P. Block 501).
R (e)Put pedal assembly in maximum aft position.
R (f)Perform operational/functional test of rudder control
R (Ref. 27-21-00, P. Block 501).
R

R E. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove access platform.

## LOWER SIDEWALL PANELS - INSPECTION/CHECK

1. Reasons for the Job

Particular attention should be paid to the visual inspection of the lower sidewall panels.
This inspection is necessary during scheduled maintenance or in the presence of defects

2. Procedure

A. Inspection/Check
(1)Inspection
(a)Inspect lower sidewall panels for damage of any kind.
(b)Inspect attachment of each panel.
(c)Make certain that there are no cracks, breaks or other signs of damage on any panel.
(d)Check each panel for cleanliness.

1. Carpets - Flight Compartment
(Ref. Fig. 401)

A. Reason for the Job
Flight compartment carpets may be removed for :
(1)Removal/installation of flight compartment seat tracks
(2)Removal/installation of floor panels,
(3)Replacement.

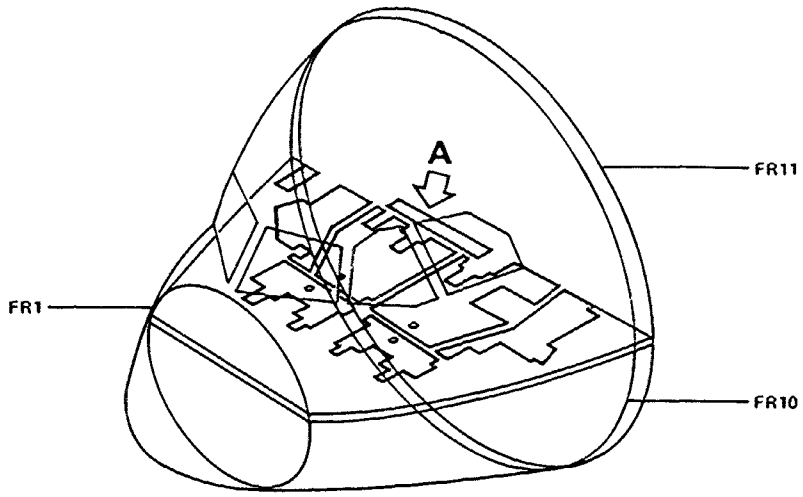
B. Equipment and Materials

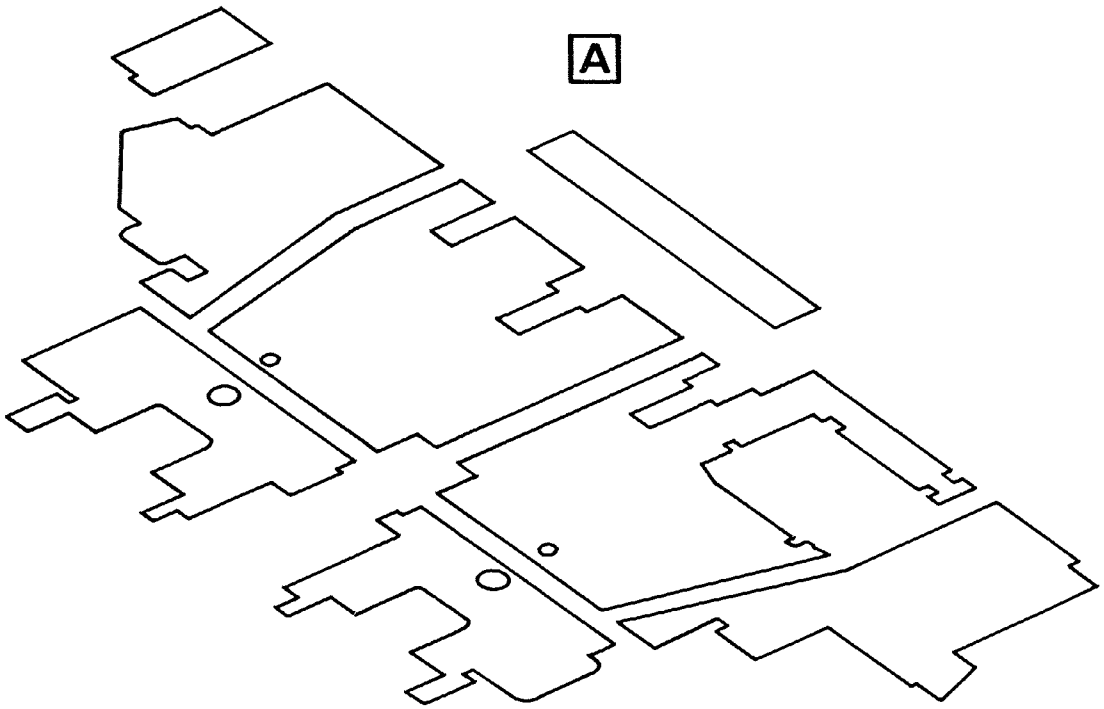
| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform 4.5 m (14 ft. 9 in.) |
| (2)Material No. 05-018 | Special Materials (Ref. 20-31-00) |
| Referenced Procedures | |
| - 25-11-11, P. Block 401 | Seat-Captain |
| - 25-11-12, P. Block 401 | First Officer Seat |
| - 25-11-13, P. Block 401 | Third Occupant Folding Seat |

C. Procedure
(1)Job set-up
(a)Position access platform.
(2)Removal
(a)Carefully remove appropriate carpet.
(b)Remove double-sided adhesive tape remaining on floor.
(c)Clean floor and remove dust.
(3)Preparation of replacement component
(a)Make certain that carpet is correctly identified and that it is clean and undamaged.
(4)Installation
(a)Position replacement carpet
(b)Cut off any surplus carpet
(c)Affix double-sided adhesive tape Material No. 05-018 to edges of area where carpet is to be installed.
NOTE : For installation of a large carpet affix two pieces of double-sided adhesive tape in diagonals across installation position
(d)Install carpet by applying pressure from center to edges.
(e)Remove access platform.

2. Map Holder
(Ref. Fig. 402)

A. Reason for the Job
Map holder may be removed for :
(1)Removal of sliding window panel lower frame.
(2)Removal of sliding window panel.

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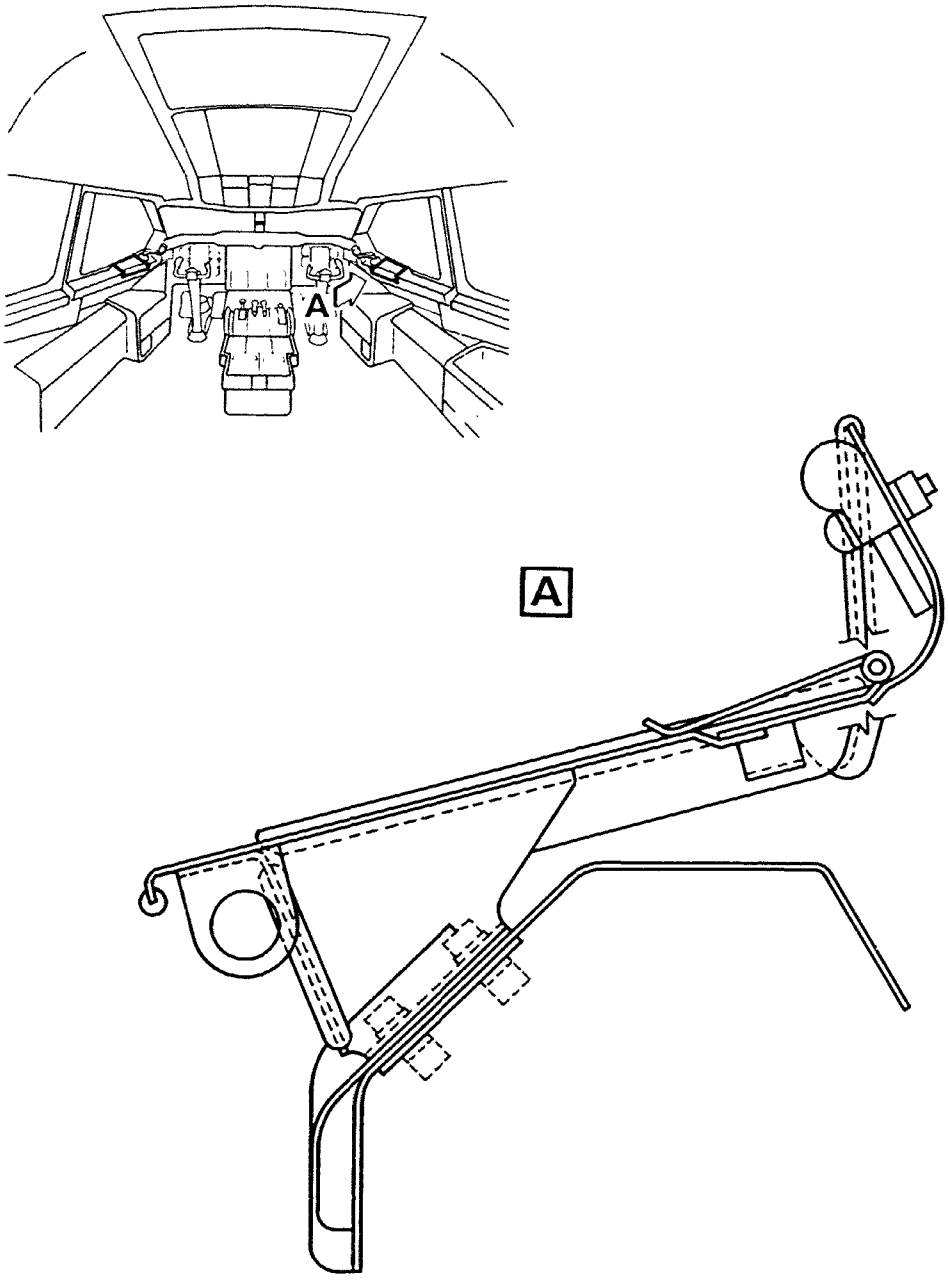
Carpet Installation - Flight Compartment
Figure 401

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Map Holder
Figure 402

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform 4.5 m (14 ft. 9 in.) |

C. Procedure

(1)Job set-up

(a)Position access platform

(b)Open, safety and tag the following circuit breakers :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | LIGHTING/INST.LT/FLOOD/CAPT/SIDE | 4LE | 321/P77 |
| 132VU | LIGHTING/INST.LT/FLOOD/F/O/SIDE | 52LE | 321/P78 |

(2)Removal

(a)Remove attaching bolts (2) of light.

(b)Disconnect connector of light.

(c)Remove light (3).

(d)Remove bolts (1).

(e)Disengage power lead (5) of light from grommet (4).

(3)Installation

(a)Engage power lead (5) of light in grommet (4).

(b)Install map holder with bolts (1).

(c)Connect connector of light.

(d)Install light (3) with bolts (2).

(4)Close-up

(a)Remove safety clips and tags and close circuit breakers 4LE and 52LE.

(b)Carry out functional test of light (Ref. 33-12-00, P. Block 501).

(c)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(d)Remove access platform.

3. Guide Rail Cover Strap

Not applicable.

1. Reason for the Job
Visual inspection of flight compartment carpet installation. Inspection during scheduled maintenance or in the presence of deteriorations.

2. Procedure

A. Inspection/Check
(1)Inspection
(a)Inspect each carpet for any form of damage (tears, stains).
(b)Make certain that each carpet adheres correctly to floor.
(c)Make certain that pick-up angles are properly attached to threshold of flight compartment door.

# ROLLER BLIND-SLIDING WINDOW - REMOVAL/INSTALLATION

## 1. Equipment and Material

| ITEM | DESIGNATION |
|---|---|
| A. | None |

## 2. Procedure

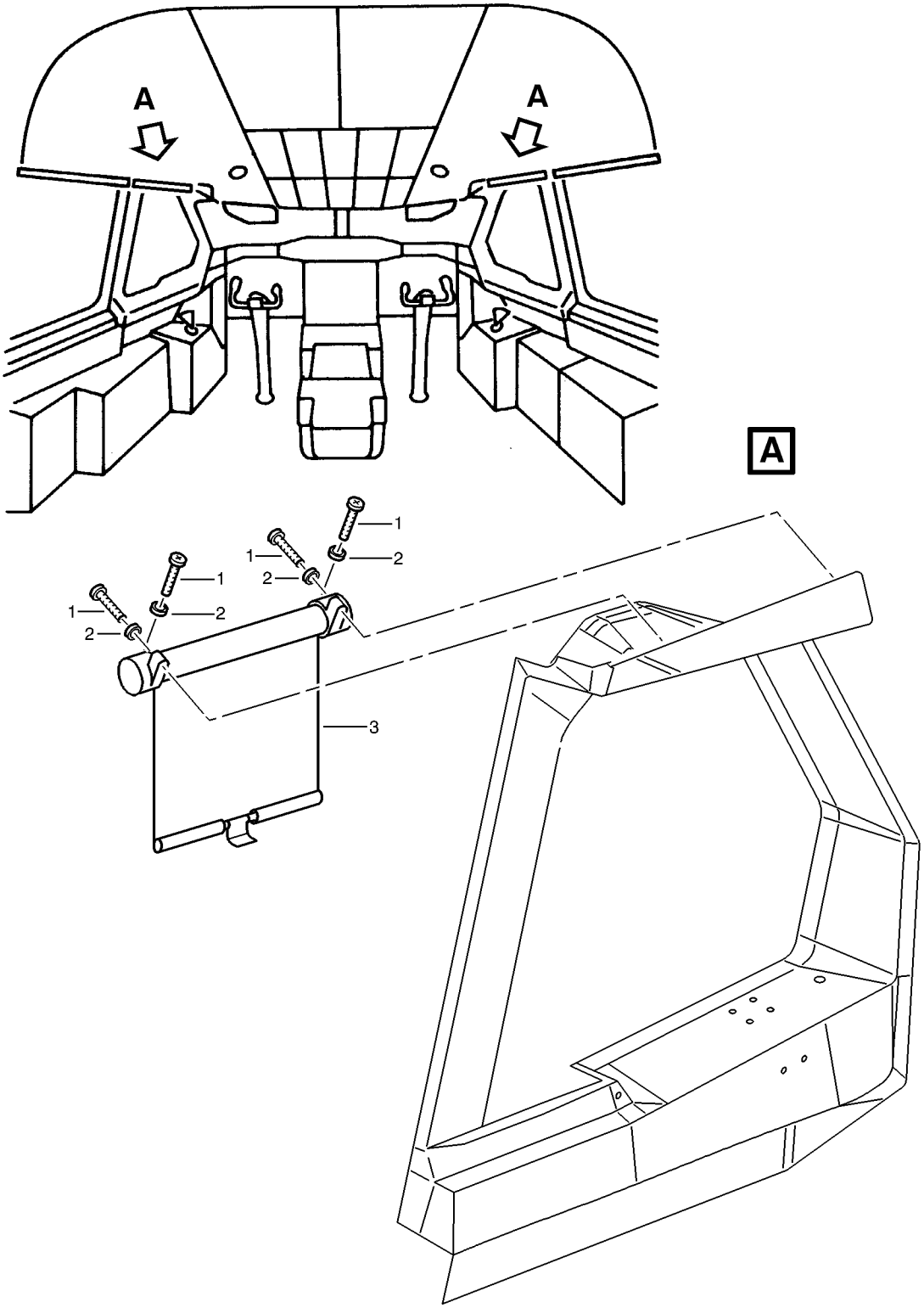
(Ref. Fig. 401)

A. Removal

(1)Open the sliding window.
(2)Remove the screws (1) and washers (2).
(3)Remove the roller blind (3).

B. Installation

(1)Make sure that the sliding window is open.
(2)Put the roller blind (3) in position.
(3)Install the washers (2) and tighten the screws (1).
(4)Close the sliding window.
(5)Make sure that the work area is clean and clear of tools and other items.

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Sliding Window Roller-Blind
Figure 401

# ROLLER BLIND - FIXED WINDOW - REMOVAL/INSTALLATION

## 1. Equipment and Material

| ITEM | DESIGNATION |
|---|---|
| A. | None |

## 2. Procedure

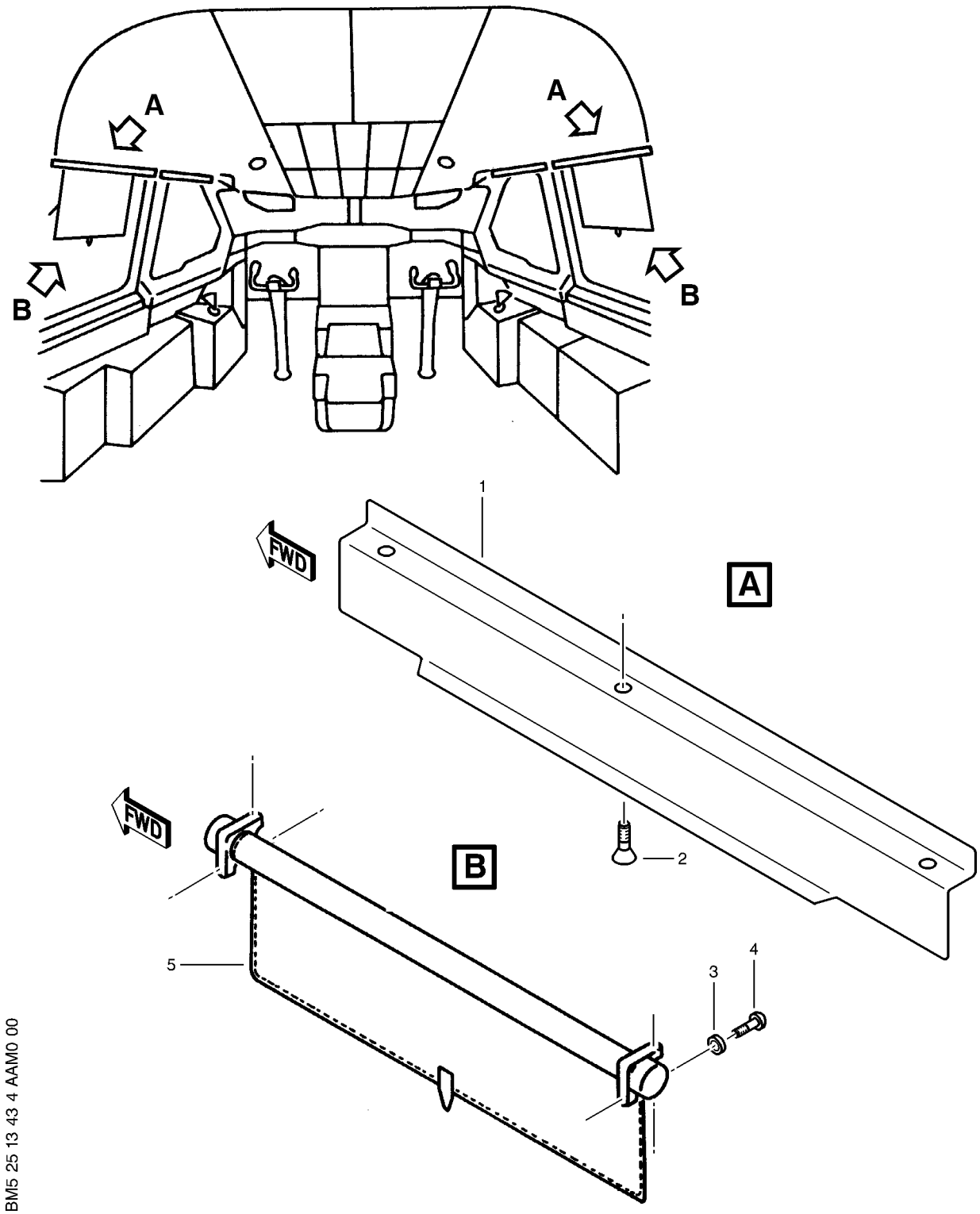
(Ref. Fig. 401)

A. Removal

(1)On fixed window, remove the three screws (2) to remove the plate (1).
(2)Remove the screws (4) and washers (3).
(3)Remove the roller blind (5).

B. Installation

(1)Put the roller blind (5) in position.
(2)Install the washers (3) and tighten the screws (4).
(3)Install the plate (1) and attach with the three screws (2).
R (4)Make sure that the work area is clean and clear of tools and other items.




Roller Blind of Fixed Window
Figure 401

1. Equipment and Material

| ITEM | DESIGNATION |
|---|---|
| A. | None |

2. Procedure

(Ref. Fig. 401)

A. Removal

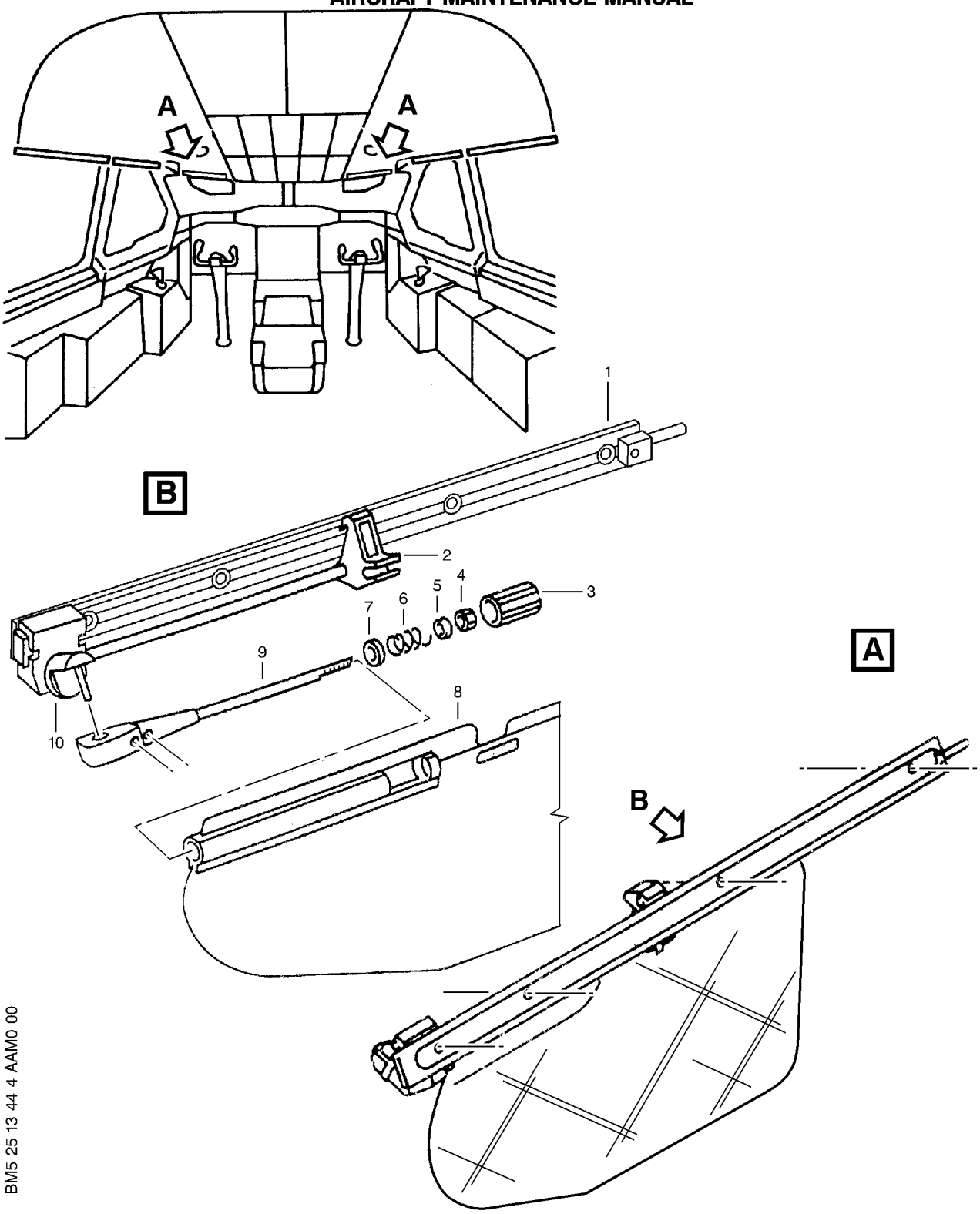
(1)Remove the four bolts and remove the plate (1).
(2)Remove the sunvisor (8) from the roller clips (2). Rotate the sunvisor spindel (9) towards the trunnion (10).
(3)Remove the knurled knob (3), remove nut (4), washer (5), spring (6) and washer (7).
(4)Remove sunvisor (8). Slide it on spindle (9).

B. Installation

(1)Install sunvisor (8) on spindle (9).
(2)Install washer (7), spring (6), washer (5); install nut (4) and knurled knob (3) on spindle (9).
(3)Rotate spindle (9) towards roller clips (2) and attach sunvisor (8) to roller clips (2).
(4)Install plate (1). Secure with the four bolts.

C. Close-up

(1)Make sure that the work area is clean and clear of tools and other items.




Windshield Sunvisor
Figure 401

# ROLLER BLIND - SLIDING AND FIXED WINDOWS - REMOVAL/INSTALLATION

## 1. Equipment and Material

| ITEM | DESIGNATION |
|---|---|
| A. | None |

## 2. Procedure

(Ref. Fig. 401)

A. Removal

(1)Remove the screws (1) and washers (2).

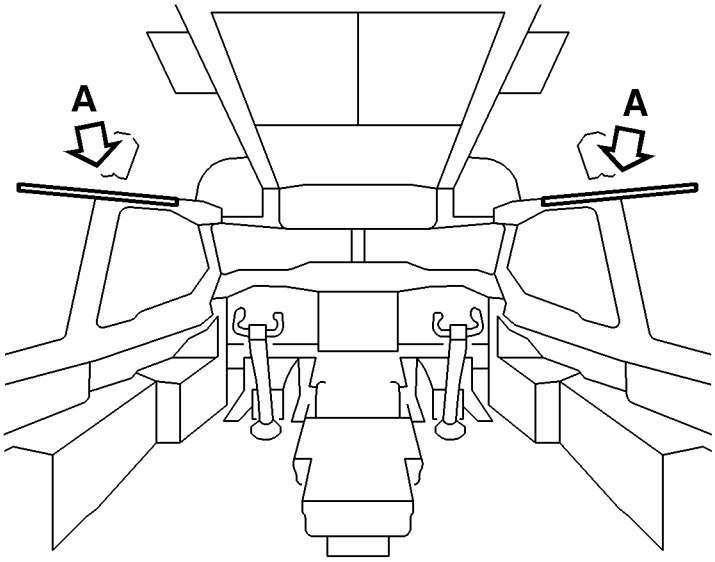
(2)Remove the roller blind (3).

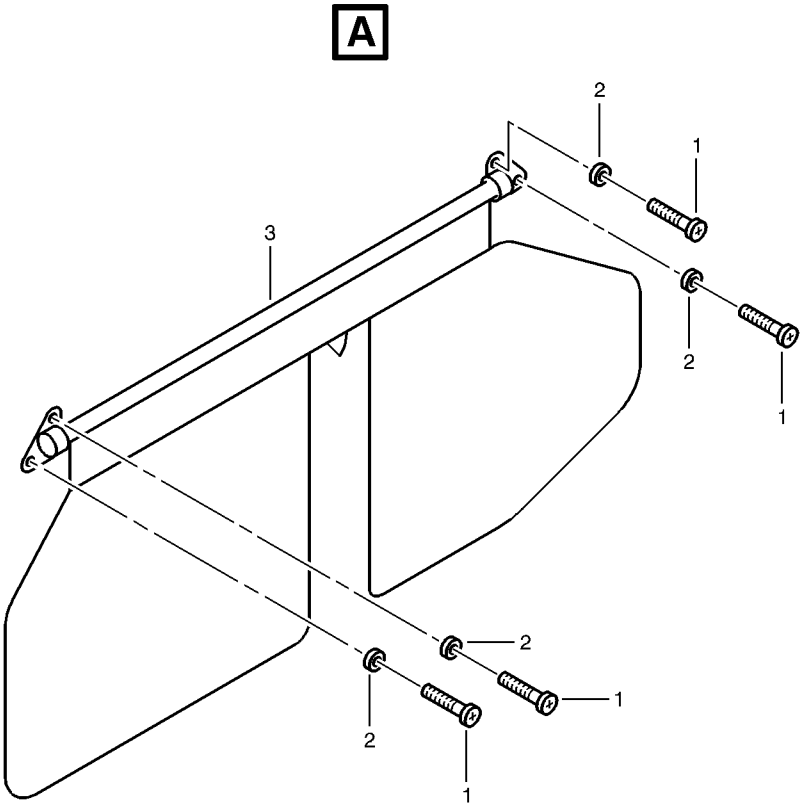
B. Installation

(1)Put the roller blind (3) in position.

(2)Install the washers (2) and tighten the screws (1).

(3)Make sure that the work area is clean and clear of tools and other items.

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Sliding and Fixed Window Roller-Blind
Figure 401

# EQUIPMENT RACKS - DESCRIPTION AND OPERATION

## 1. General

(Ref. Fig. 001)

A rear rack is installed in the flight compartment to group certain monitoring and safety equipment required by the Third Occupant for check-list and maintenance operations and in flight.

This rack comprises the rear panel 120VU located on the right-hand side of the flight compartment behind the First Officer's seat ; this panel is attached on the rear rack which serves as a partition between the flight compartment and the passenger compartment.

It groups all the electrical circuit breakers and all monitoring equipment associated with aircraft system.

## 2. Description

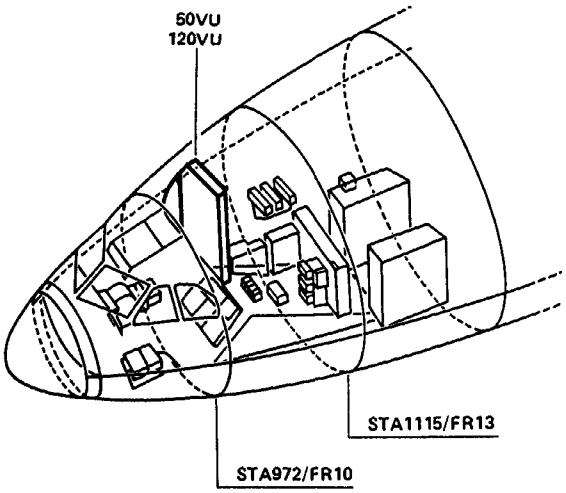
The rear rack is made up of a light alloy framework assembled by rivets and spot welds.

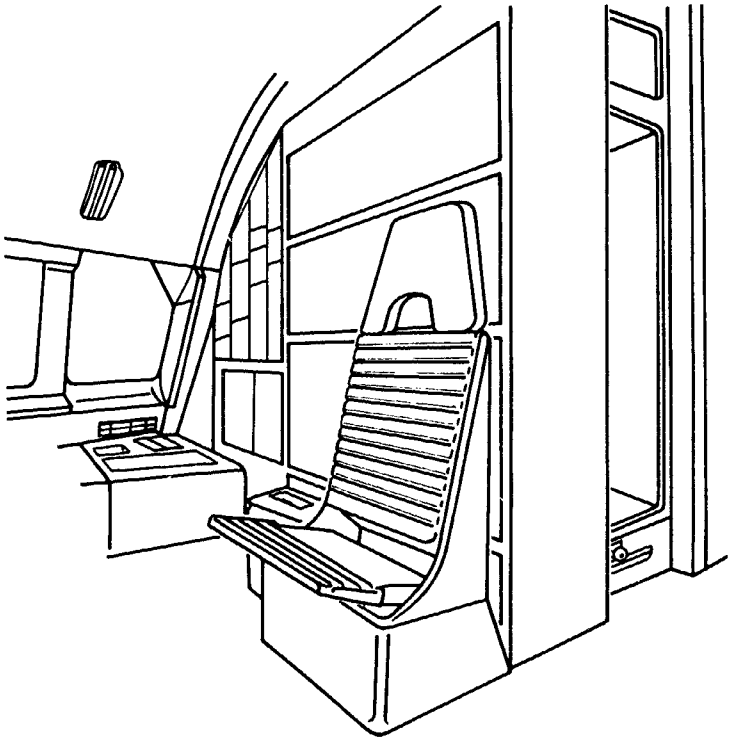
Lateral, horizontal and vertical members are fitted with supports for the circuit breaker panels making up the rack.

The rear of the rack is fitted with lining panels.

The top of the rack is attached to the aircraft structure by two brackets between frames 10 and 100, while the bottom of the rack is attached to two brackets on the floor beam between 10 and 100.

The rack brackets are attached to the aircraft structure brackets by bolts.



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General
Figure 001

# HEATING PANELS - FLIGHT CREW FEET - DESCRIPTION AND OPERATION

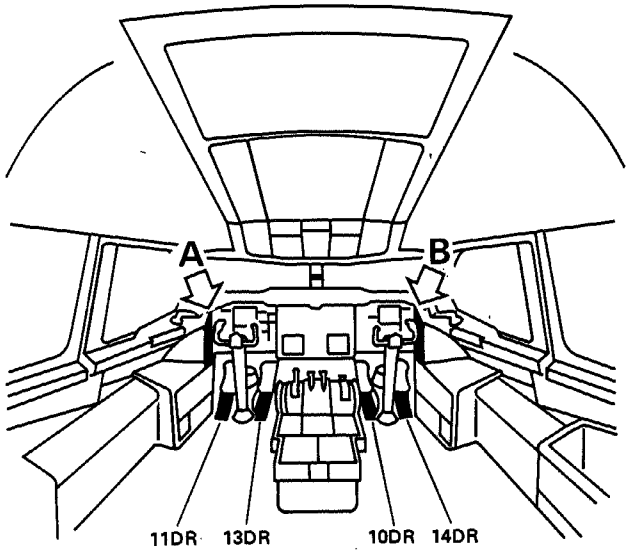
## 1. General

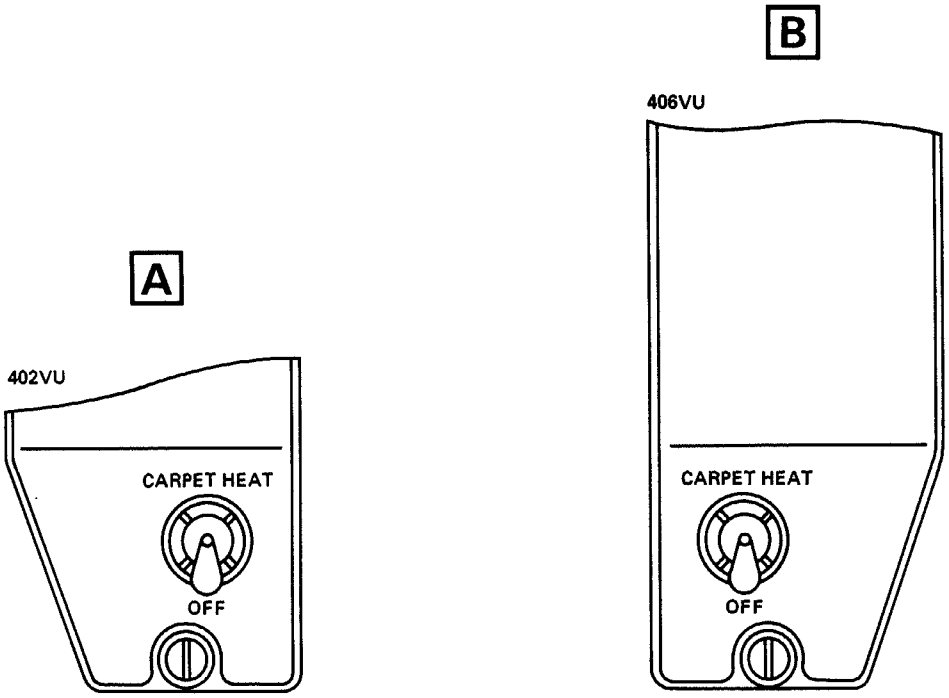
The flight crew electrical feet warmers consist of heating panels controlled by a switch located on Captain's and First Officer's switching panels.

## 2. Component Location

(Ref. Fig. 001)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF. |
|---|---|---|---|---|---|
| 7DR | SWITCH-CARPET HEAT, CAPT | 402VU | 211 | | |
| 8DR | SWITCH-CARPET HEAT, F/O | 406VU | 212 | | |
| 10DR | FEET WARMER-ELECTRICAL, F/O L | | 212 | | 25-15-11 |
| 11DR | FEET WARMER-ELECTRICAL, CAPT L | | 211 | | 25-15-11 |
| 13DR | FEET WARMER-ELECTRICAL, CAPT R | | 211 | | 25-15-11 |
| 14DR | FEET WARMER-ELECTRICAL, F/O L | | 212 | | 25-15-11 |

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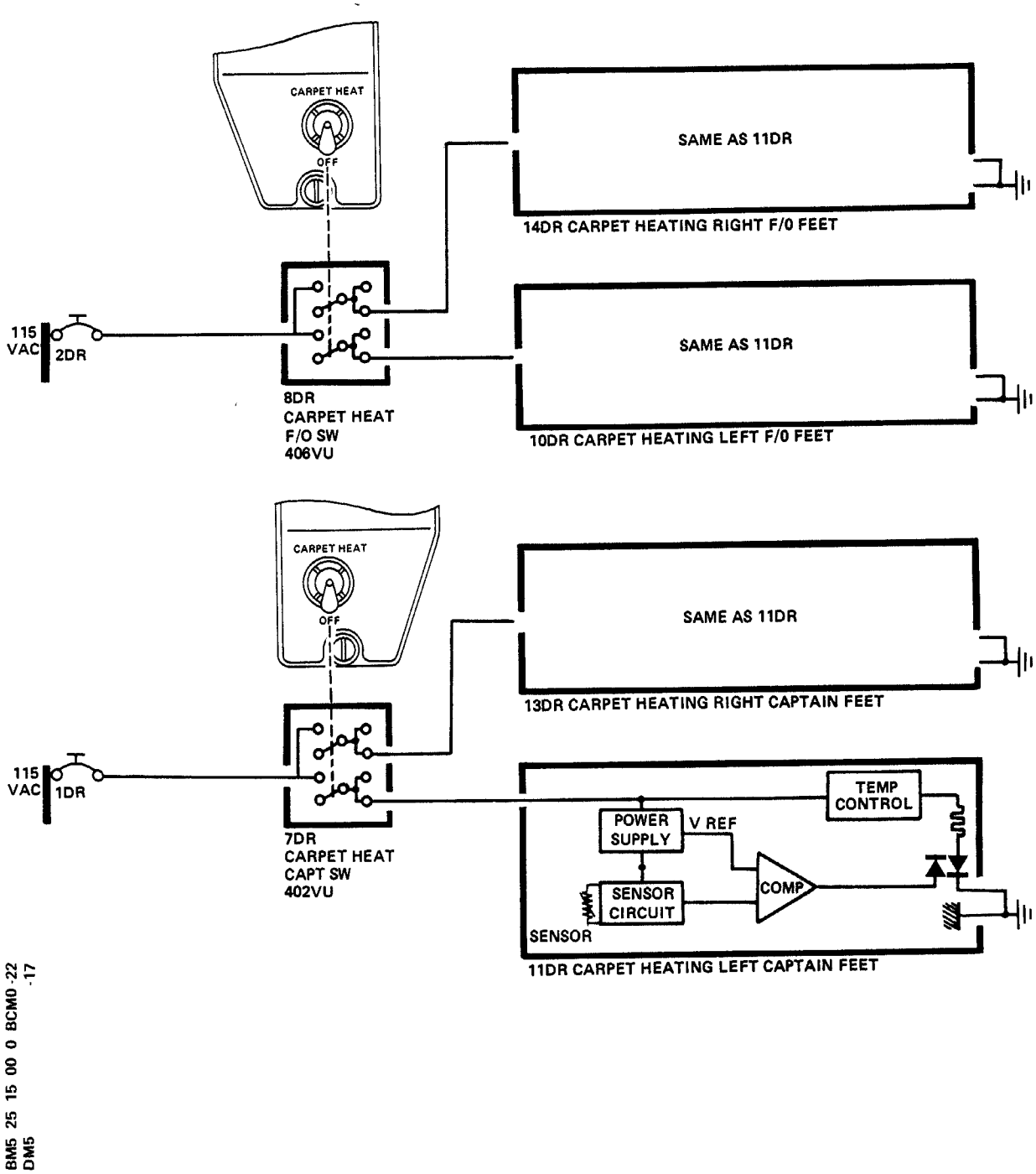
DM5

Component Location
Figure 001

3. System Description
(Ref. Fig. 002)
Each feet warmer is controlled by a dual switch supplied with 115VAC. An electronic circuit integral to the feet warmer, controls the temperature level.




Flight Crew Feet Warmer Operation
Figure 002

## CAPTAIN AND FIRST OFFICER FEET HEATING PANELS - REMOVAL/INSTALLATION

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Blanking Plugs/Caps |
| B. | Circuit Breaker Safety Clips |
| Referenced Procedure<br>- 24-41-00, P. Block 301 | AC External Power Control |

2. Procedure
(Ref. Fig. 401)

A. Job Set-Up

NOTE : The removal/installation procedure of only one foot heating panel is described below. This procedure is identical for the three others.

(1)Open, safety and tag the following circuit breakers :

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | CARPET HEAT/CAPT | 1DR | 324/L67 |
| 132VU | CARPET HEAT/F/O | 2DR | 324/L68 |

B. Removal (Ref. Fig. 401)

(1)Remove screws (2), washers (3).
(2)Disconnect electrical connector (4) from foot heating panel (1).
(3)Remove heating panel (1).
(4)Cap electrical connector (4).

C. Installation

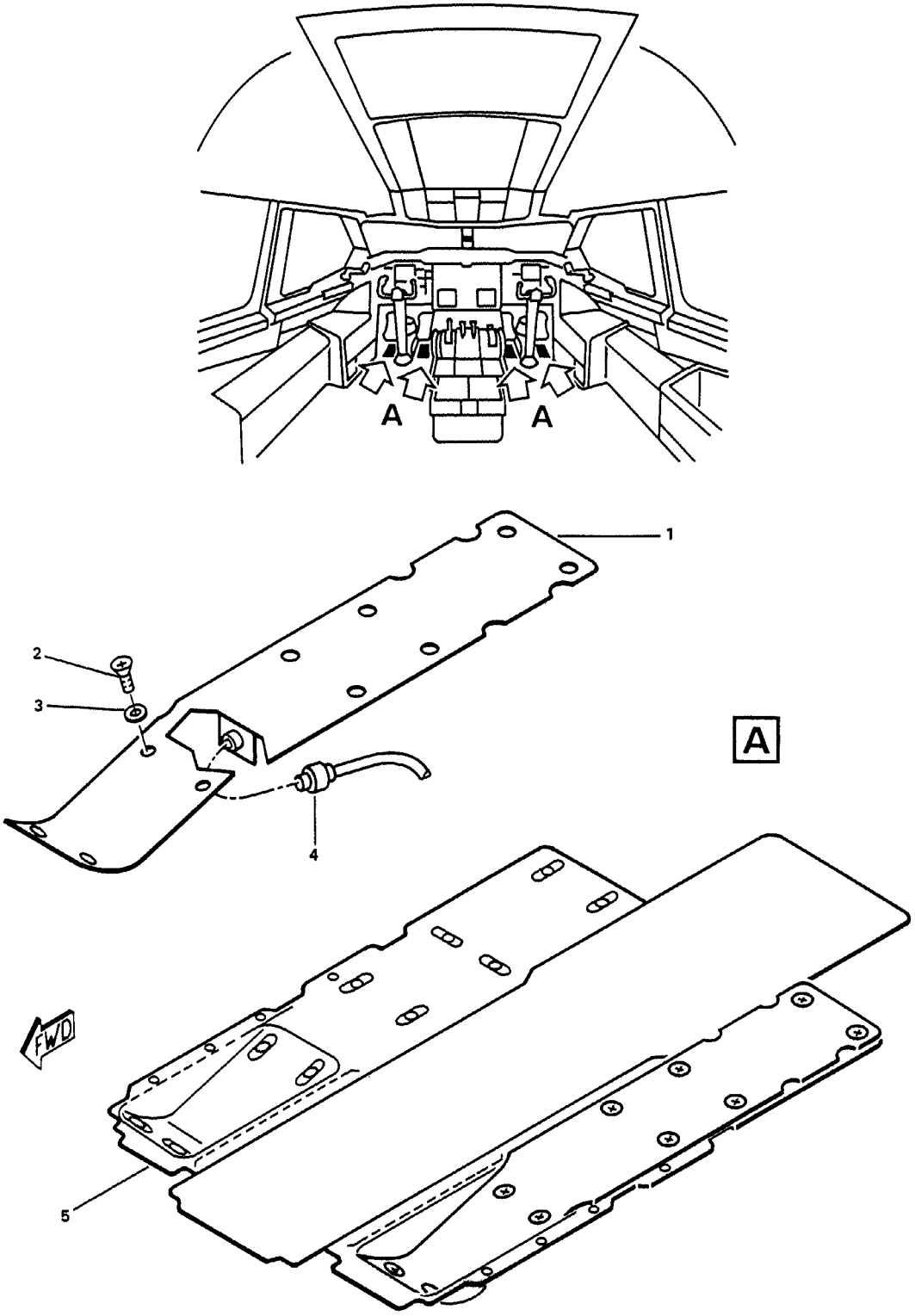
(1)Install foot heating panel (1) in its housing (5).
(2)Install screws (2) and washers (3).
(3)Remove blanking caps and connect electrical connector (4).
(4)Remove safety clips and tags and close circuit breakers 1DR and 2DR.

R D. Operational Test

R (1)On CAPT SW/GPWS panel 402VU, set CARPET HEAT switch 7DR to ON.
R (2)Make certain that left and right Captain feet heating panels operate.
R (3)On F/O SW/GPWS panel 406VU, set CARPET HEAT switch 8DR to ON.
R (4)Make certain that left and right First Officer feet heating panels
R operate.

R E. Close-Up

(1)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.




BM5 25 15 11 4 BAM0 – 22 – 17
DM5

Captain and First Officer Feet Heating Panels
Figure 401

## PASSENGER COMPARTMENT - DESCRIPTION AND OPERATION

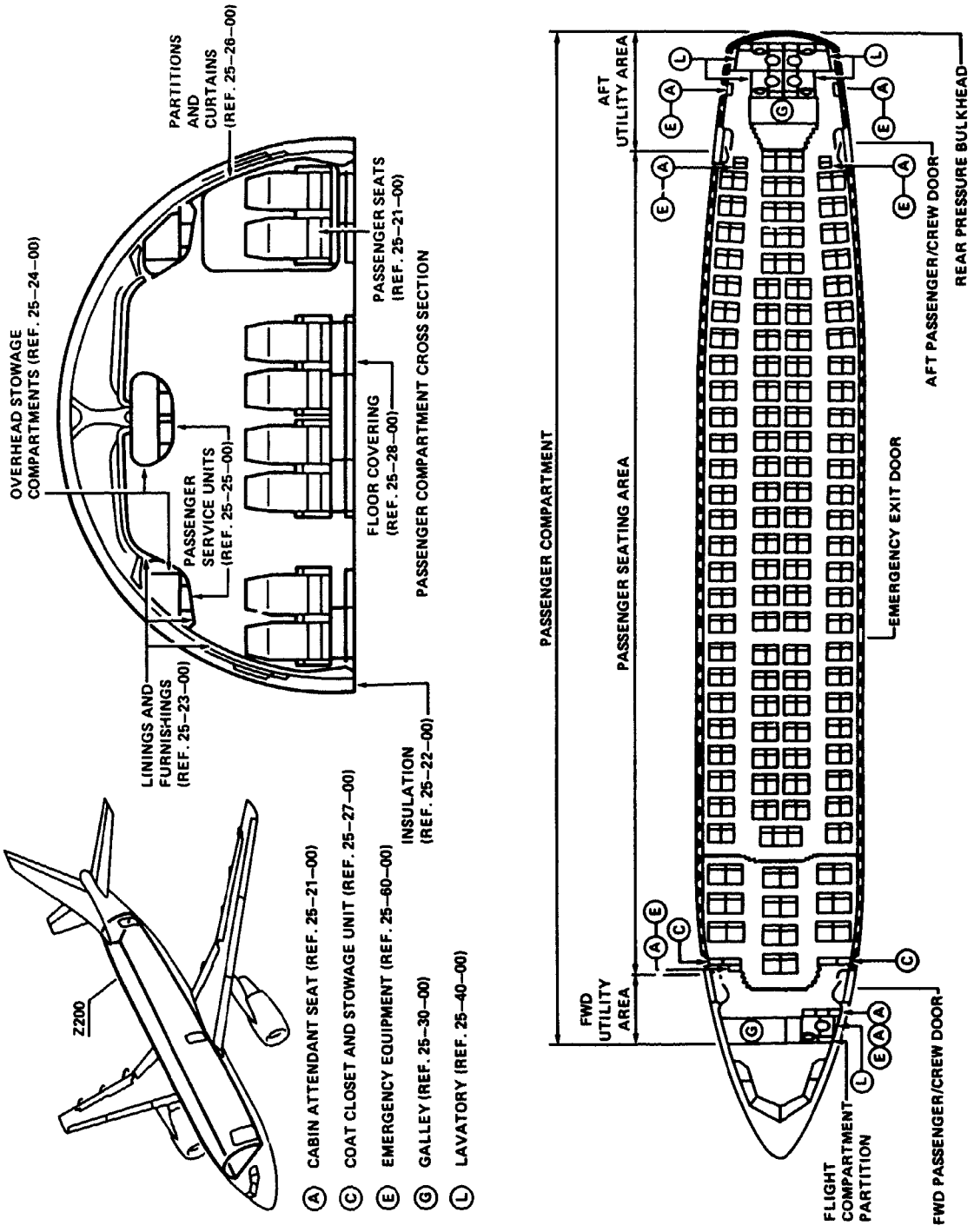
1. General (Ref. Fig. 001)

A. The passenger compartment occupies the upper fuselage half and extends from the flight compartment partition to the rear pressure bulkhead.

B. As a location referencing aid, the passenger compartment is divided into utility areas and seating areas in relation to the passenger/crew doors and emergency exit doors.
   (1) The utility areas are those areas containing the cabin entrances, lavatories, galleys and stowage units. Each utility area is designated to coincide with the respective passenger/crew doors, i.e. FWD utility area - FWD passenger/crew doors.
   (2) The passenger seating area is located between the FWD and AFT utility area. It may be subdivided into First Class and Economy Class seat configurations in accordance with airline requirements.
   (3) The utility areas and seating areas are normally separated by partitions and curtains.

C. Equipment and furnishings installed within the passenger compartment are the following:
   (1) PASSENGER COMPARTMENT SEATS (Ref. 25-21-00) are provided for passengers and cabin attendants.
   (2) HEAT AND SOUND INSULATION (Ref. 25-22-00) cover the fuselage interior surfaces.
   (3) LININGS AND FURNISHINGS (Ref. 25-23-00) are panels covering the compartment ceiling, sidewalls and door frames.
   (4) OVERHEAD STOWAGE COMPARTMENTS (Ref. 25-24-00) provide for stowage of passenger carry-on baggage and miscellaneous equipment.
   (5) PASSENGER SERVICE UNITS (Ref. 25-25-00) are installed at passenger and attendant locations throughout the compartment.
   (6) CURTAINS AND PARTITIONS (Ref. 25-26-00) used to divide the utility areas and seating sections.
   (7) ANCILLARY EQUIPMENT (Ref. 25-27-00) consists of various stowage units.
   (8) FLOOR COVERING (Ref. 25-28-00) include carpets and nontextile mats.
   (9) ELECTRICAL SERVICE SUPPLY (Ref. 25-29-00) provide electrical power for cleaning the interior.

D. Additional equipment and furnishings also installed in the passenger compartment are:
   (1) BUFFET AND GALLEYS (Ref. 25-30-00).
   (2) LAVATORIES (Ref. 25-40-00)
   (3) EMERGENCY EQUIPMENT (Ref. 25-60-00)


PARTITIONS AND CURTAINS (REF. 25-26-00)
OVERHEAD STOWAGE COMPARTMENTS (REF. 25-24-00)
PASSENGER SEATS (REF. 25-21-00)
PASSENGER SERVICE UNITS (REF. 25-25-00)
FLOOR COVERING (REF. 25-28-00)
PASSENGER COMPARTMENT CROSS SECTION
LININGS AND FURNISHINGS (REF. 25-23-00)
INSULATION (REF. 25-22-00)
Z200
A CABIN ATTENDANT SEAT (REF. 25-21-00)
C COAT CLOSET AND STOWAGE UNIT (REF. 25-27-00)
E EMERGENCY EQUIPMENT (REF. 25-60-00)
G GALLEY (REF. 25-30-00)
L LAVATORY (REF. 25-40-00)
B M 6 25 20 00 0 AC M 0-12
PASSENGER COMPARTMENT
AFT UTILITY AREA
PASSENGER SEATING AREA
FWD UTILITY AREA
EMERGENCY EXIT DOOR
AFT PASSENGER/CREW DOOR
REAR PRESSURE BULKHEAD
FLIGHT COMPARTMENT PARTITION
FWD PASSENGER/CREW DOOR

Typical Interior Arrangement
Figure 001

# PASSENGER COMPARTMENT SEATS - DESCRIPTION AND OPERATION

## 1. General

The passenger compartment seats are located from STA1315(FR17) through STA3938(FR73), and include passenger seats and cabin attendant seats.

Passenger seats are track mounted, forward facing and may consist of first class double and triple seat units, and economy class single, double, or triple seat units.

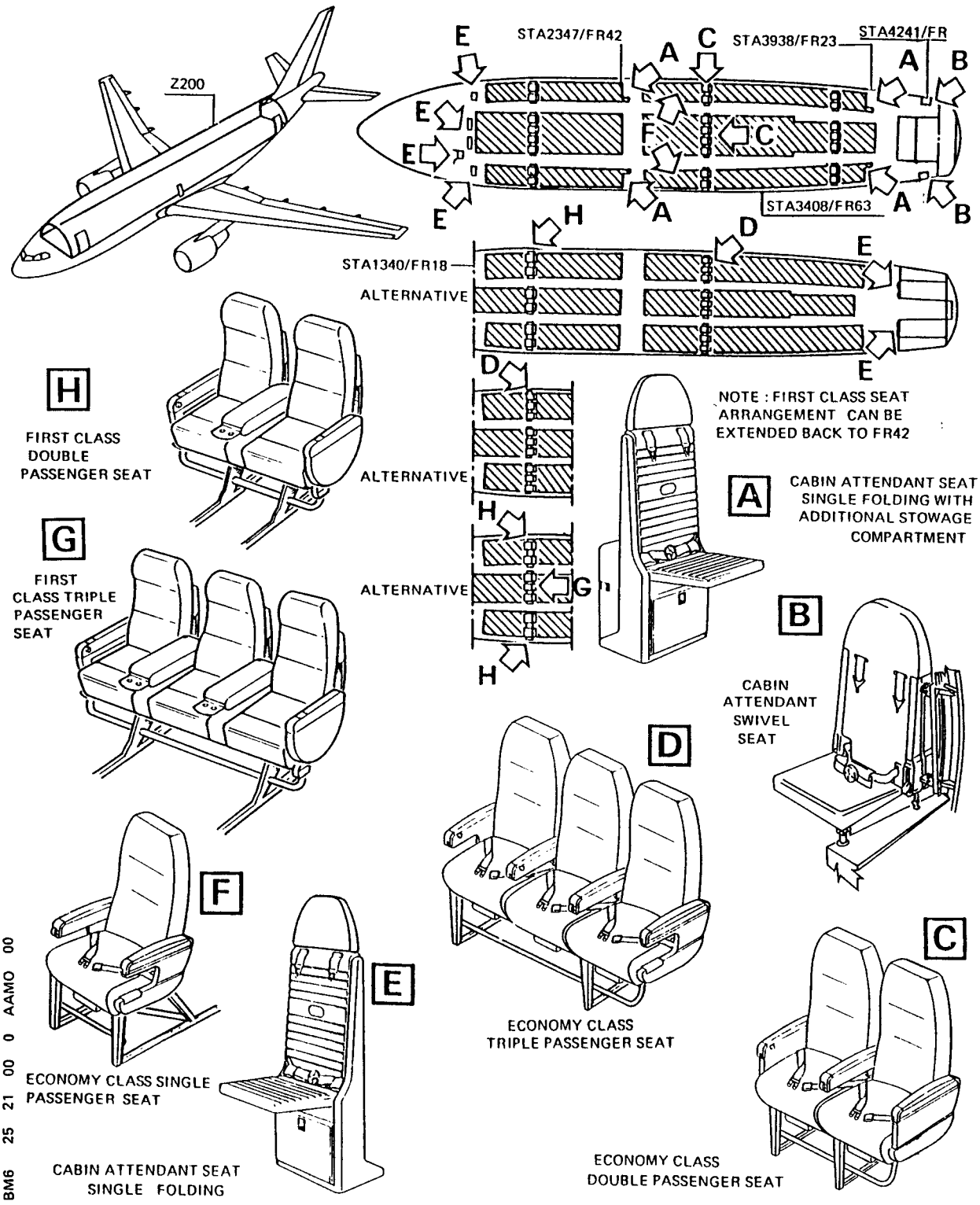
Cabin attendant seats are located in the passenger/crew and emergency exit door areas and may consist of single folding or single folding with additional stowage compartment and swivel seats. The single, folding seats are track mounted while the swivel seats, if installed, are mounted on the aircraft sidewall.

Plastic seat track covers are fitted into the seat tracks to cover exposed track sections not utilized.

## 2. Component Location

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Cabin Attendant Seat, Single Folding | 221/222 | |
| 2 | Cabin Attendant Seat, Single Folding with additional Stowage Compartment | 231/232<br>241/242<br>251/252 | |
| 3 | First Class Double Passenger Seat | 231/232 | |
| 4 | Economy Class Double Passenger Seat | 241/242<br>251/252 | |
| 5 | Economy Class Single Passenger Seat | 241/242 | |
| 6 | Economy Class Triple Passenger Seat | 231/232<br>241/242<br>251/252 | |
| 7 | Cabin Attendant Swivel-Seat | 261/262 | |
| 8 | First Class Triple Passenger Seat | 231/232 | |

(Ref. Fig. 001)




Typical Seat Arrangement
Figure 001

3. Description and Operation

A. Passenger Seats (Ref. Fig. 002)

(1)The passenger seats consist of a framework assembly with seat pan with upholstery, backrest assembly with upholstery, folding table, seat belts and upholstered armrests. Passenger seat combinations of one through four seat units are available.

(a)The backrests are equipped with tables, which are folded into a recess for stowage. The folding tables are supported by movable arms which pivot beneath the folding table assemblies.

(b)Each backrest is hydraulically reclineable to an adjustable mechanical stop. Additionally, the backrest can be manually folded forward (break over).

(c)The upholstered armrest assemblies contain the hydraulic recline control button and ashtray. Inner armrests can be folded flush between the backrests. Provision is made in armrests for use of plug-in tables if required.

(d)The seat units are attached to the seat tracks by an attach fitting in each rear leg and by a retainer in each front leg. A quick-release feature allows movement of the seat in the seat tracks or complete removal. A luggage bar is attached to the forward legs to prevent movement of items stowed beneath the seat.

(e)Life vest stowage is provided below each seat pan.

(f)Seat units with passenger service facilities are equipped with an electrical connector located between the front and rear legs.

B. Cabin Attendant Seats (Ref. Fig. 003, 004, 005)

(1)Each standard attendant seat comprises a seat frame headrest, shoulder harness, seat belt, seat pan, stowage compartment and upholstery.

(a)The seat structure comprises two aluminum castings interconnected by frame work.

(b)The headrest consists of an integral foam covered frame.

(c)The cast aluminum seat pan is hinge-mounted to the seat frame castings and is spring-loaded to retract when not in use.

(d)Located below the seat pan is a stowage compartment with a latched door.

(e)Each seat is equipped with seat belt and shoulder harness with center buckle. The shoulder harness is retracted automatically on inertia reels when not in use.

(f)The upholstery consists of covered integral foam seat cushion and backR rest attached to the seat pan and seat frame by hook and loop tape.

(g)The free standing seats, located in the passenger seating area, are attached to the seat tracks by attach fittings and held in position by mechanical stops. In areas where seat tracks are not provided, the seats are attached to the floor structure through hardpoints and bolted to a wall of an adjacent structure, e.g. lavatory, galley.

(h)The following are optional:

- five point restrain system
- work table
- additional stowage compartment

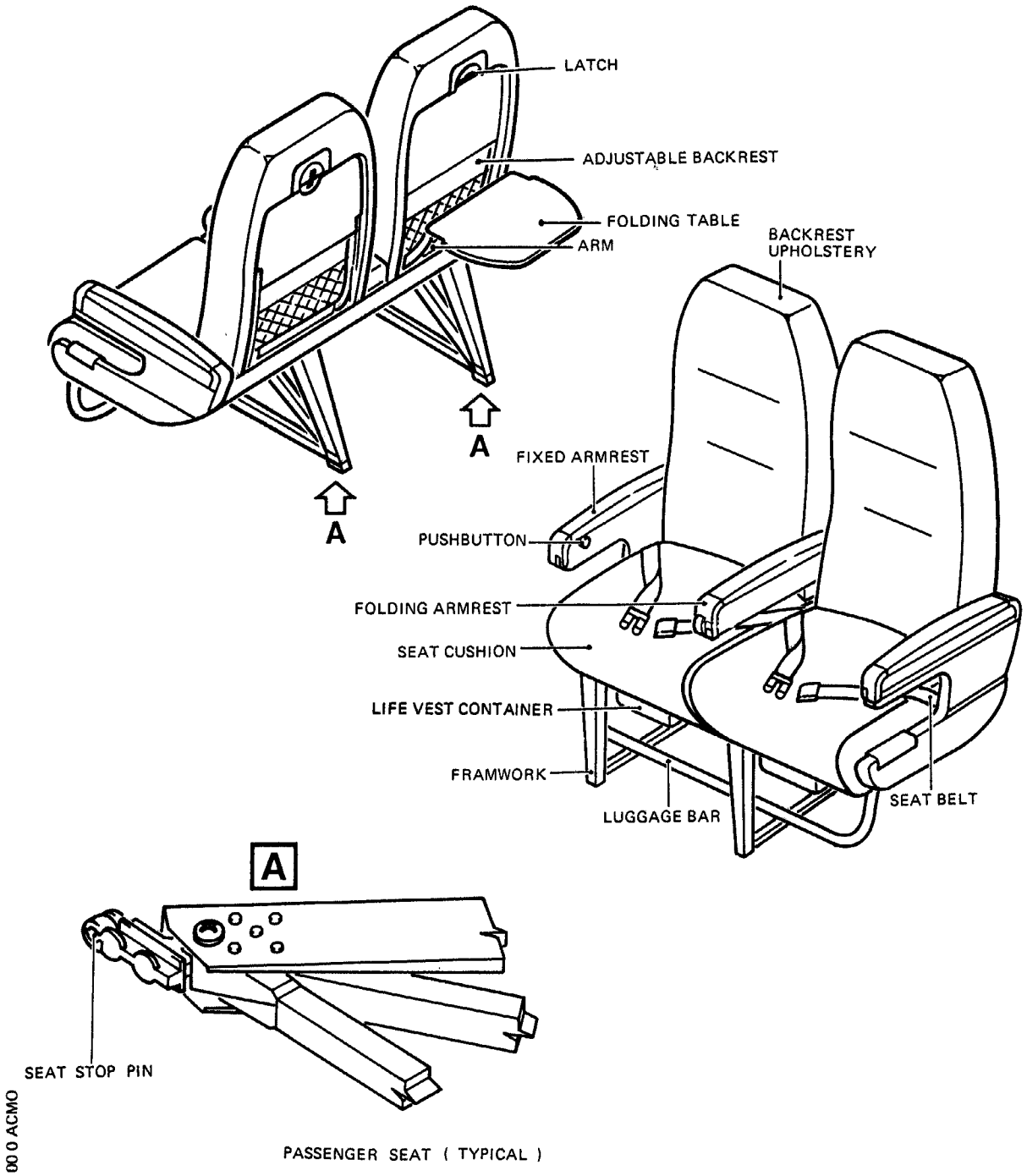
(2)The swivel cabin attendant seats are designed to be stowed in a sidewall recess when not in use, to provide unhindered access to the rear lavatories. The construction differs from the free standing seat in that the welded steel seat frame is attached to the aircraft structure by two pip pins that act as hinge points, allowing the seat to be swung out from a sidewall recess. The seat is limited by a stop plate attached below the seat back and to the aircraft sidewall. The stop plate allows the seat pan, when folded down, to properly engage the locking point.

(a)Stowage facilities for emergency equipment, related to the swivel seats, are provided in the lower sidewall panels, within easy reach.

(b)To place the seat in position, the seat has to be swung out of the stowed position by pressing down and pulling a grip lever located below the backrest cover. When the seat movement is stopped by the stop plate, the seat pan has to be pulled down and pressed onto the latch pin to be secured in position.

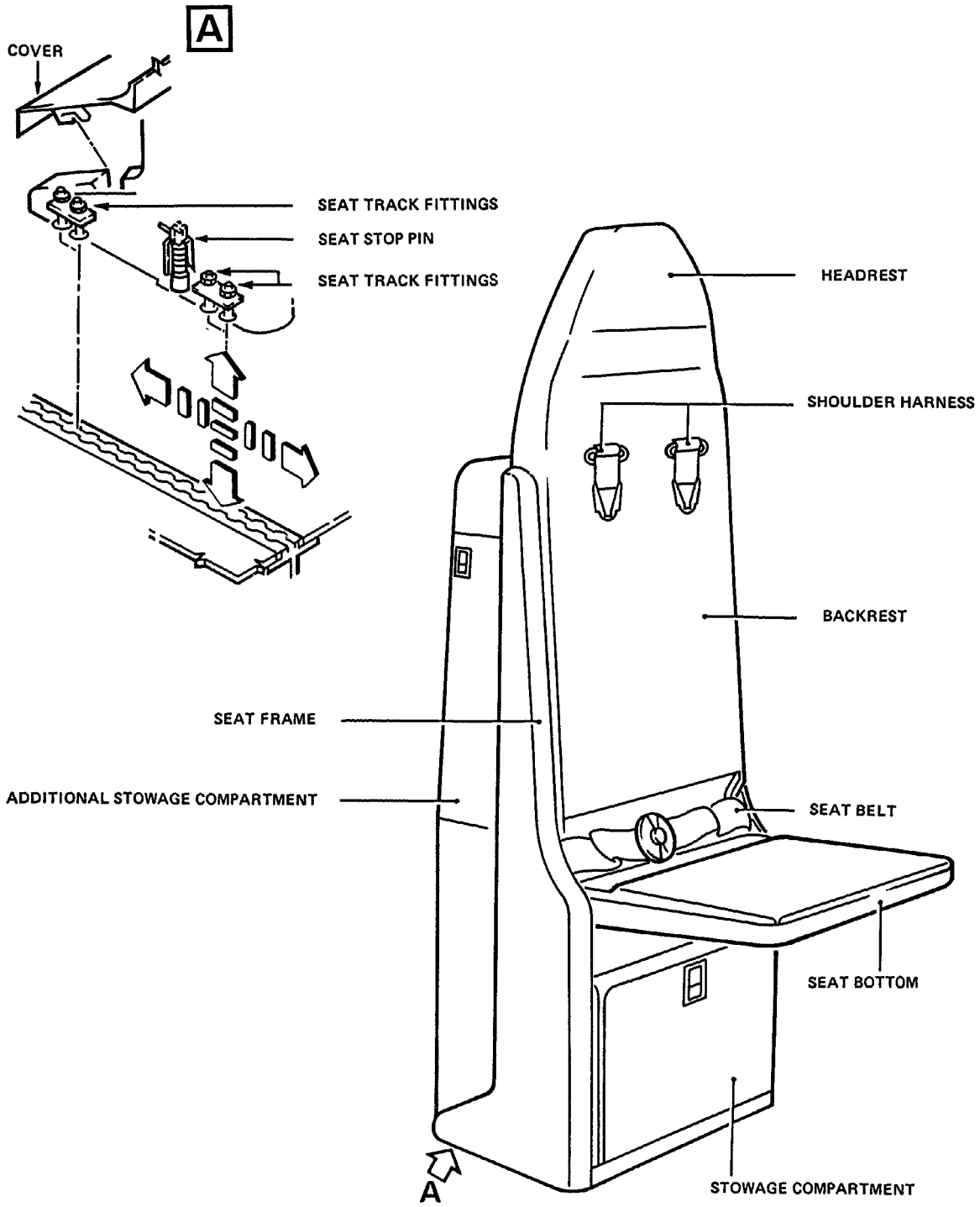
(c)To return the seat to the stowed position, the seat pan has to be released from the latch assembly to enable the seat pan to be folded up manually to the backrest. The seat unit has to be swung into the sidewall recess until the grip lever is locked into position.

(d)Each seat is equipped with seat belts/shoulder harness restraint system with center buckle. The shoulder harness is automatically retracted on inertia reels when not in use. An optional 5-point restraint system, with or without automatically retracted shoulder harness, is available.




PASSENGER SEAT ( TYPICAL )

Typical Double Passenger Seat
Figure 002

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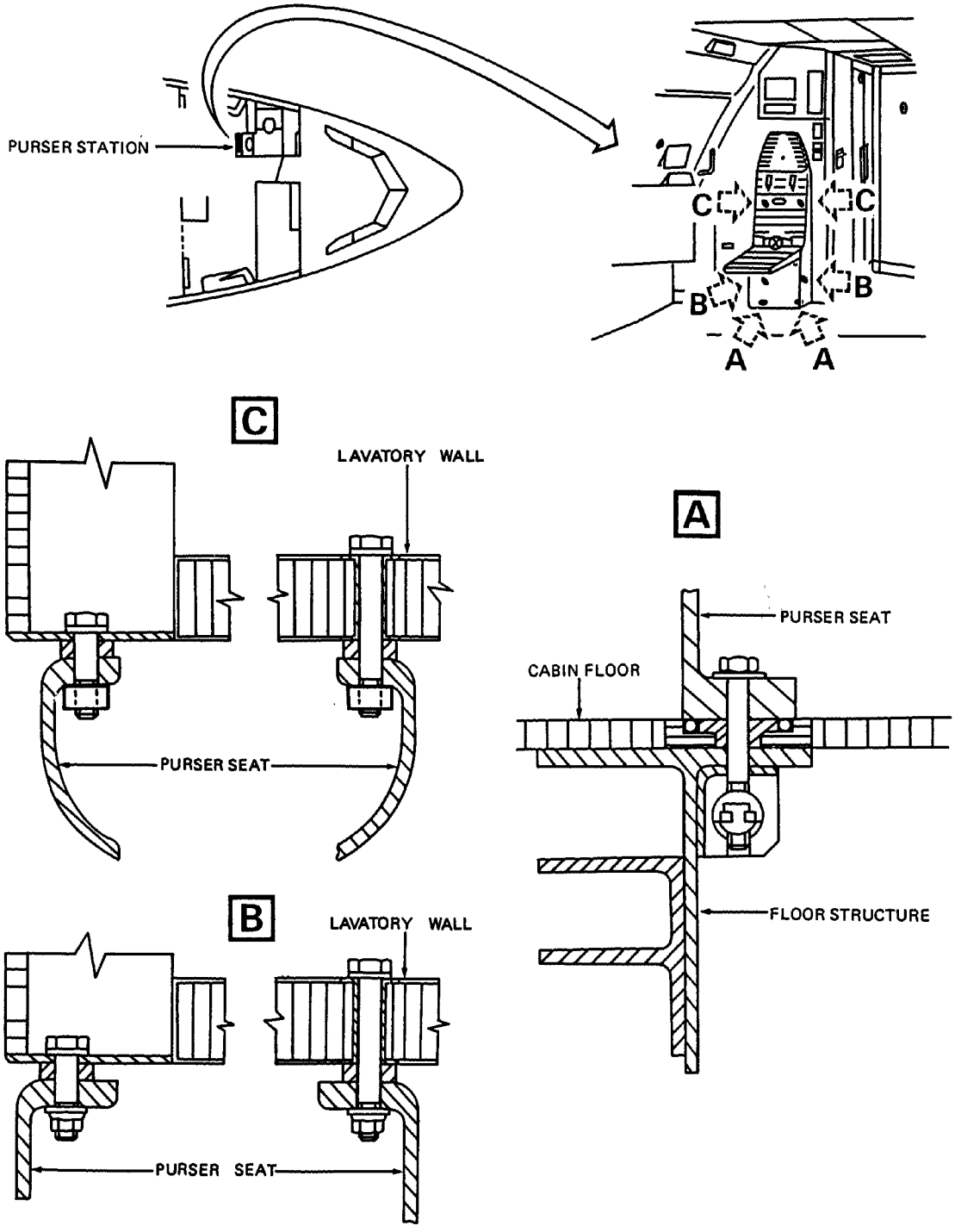
Cabin Attendant Seat, Free Standing
Figure 003

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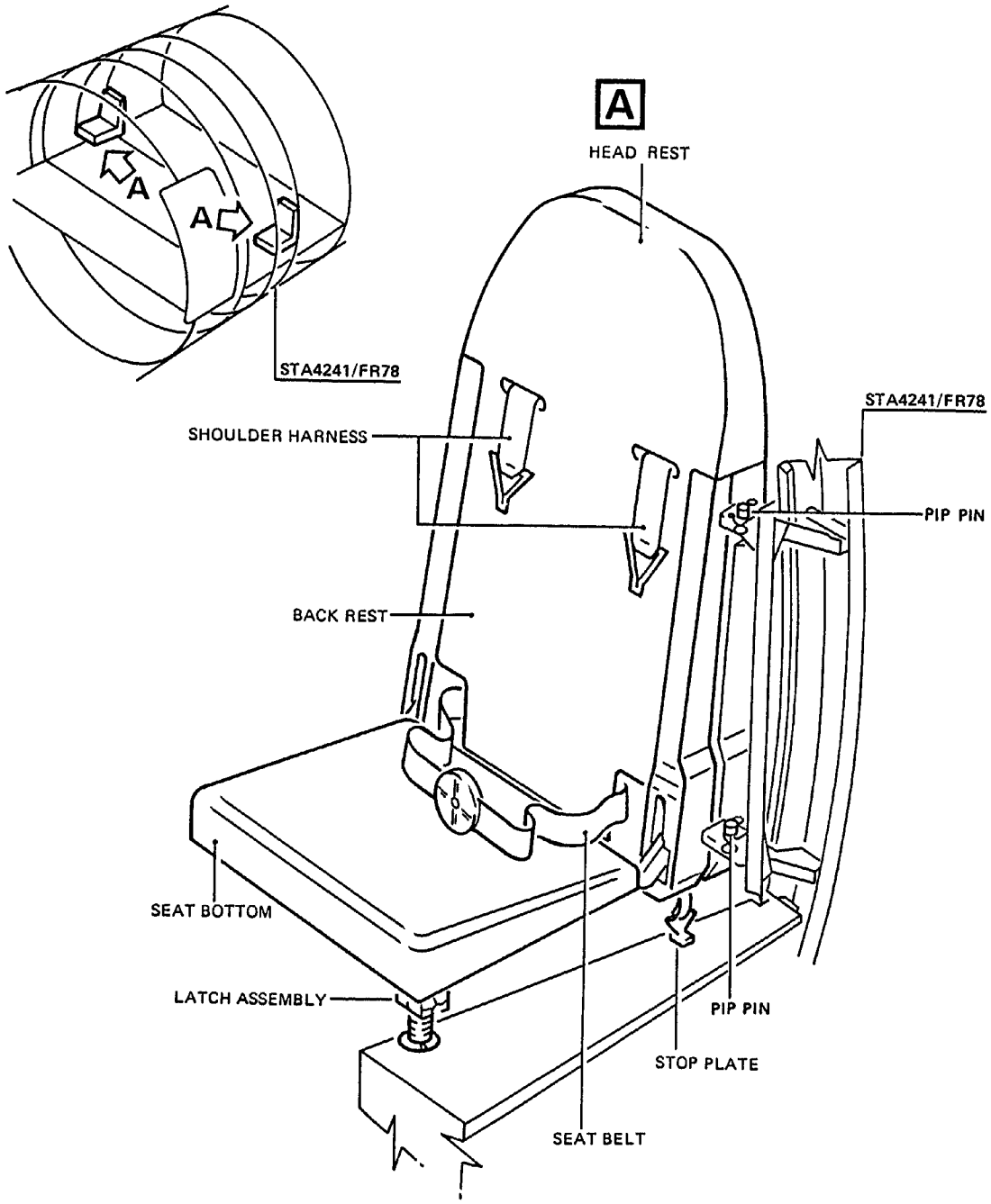
Cabin Attendant Seat, Purser's Seat
Figure 004

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Cabin Attendant Swivel-Seat
Figure 005

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Seat Track Adapter |
| C. | Distance Piece |
| D. | Blanking Caps |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 23-33-00, P. Block 501 | Passenger Entertainment (Music) |

R **ON A/C 101-200,

| | |
|---|---|
| R - 23-38-00, P. Block 501 | Passenger Service System |

R **ON A/C ALL

| | |
|---|---|
| - 25-21-00, P. Block 601 | Passenger Compartment Seats |

2. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| **ON A/C 005-100, | | | |
| 800VU | FC SEAT CTL - LH | 3HP | F 6 |
| 800VU | FC SEAT CTL - MID | 2HP | F 9 |
| 800VU | FC SEAT CTL - RH | 1HP | F12 |
| R **ON A/C 101-200, | | | |
| R 800VU | FC SEAT CTL - LH | 3HP | F11 |
| R 800VU | FC SEAT CTL - MID | 2HP | F12 |
| R 800VU | FC SEAT CTL - RH | 1HP | F13 |
| R **ON A/C 001-100, | | | |
| 800VU | PES | 21MK | D 2 |
| 800VU | PES | 22MK | D 3 |
| R **ON A/C 101-200, | | | |
| R 800VU | PES/PSS | 20MK | D 1 |
| R 800VU | PES/PSS | 21MK | D 2 |

| | PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|---|
| R | 800VU | PES/PSS | 22MK | D 3 |

R **ON A/C 001-004, 101-200,

B. Removal
(1)Remove seats (Ref. Fig. 401).
(a)Remove seat track covers.
(b)Remove covers from junction box, disconnect electrical connectors and fit blanking caps.

R **ON A/C 001-100,

R Post SB 25-2073 For A/C 001-100,

B. Removal
(1)Remove seats.
(a)Remove seat track covers.
(b)Remove covers from junction box, disconnect electrical connectors and fit blanking caps.

**ON A/C 005-100,

B. Removal
(1)Remove seats (Ref. Fig. 401).
(a)Remove seat track covers.
(b)At sleeper seats remove covers from junction box, disconnect electrical connectors and fit blanking caps (Ref. Fig. 405).

**ON A/C ALL

(c)Mark position of seat on seat tracks for subsequent installation and unlock seat stops (1).
(d)Slide passenger seat free from seat tracks and remove.
(2)Remove seat track adapter and distance piece if installed (Ref. Fig. 402, 403).
(a)Mark position of seat track adapter (1) on seat tracks for subsequent installation.
(b)Loosen nuts (2) and unlock stops (3).
(c)Slide seat track adapter free from seat tracks.
(d)Remove distance piece (4) from gap between seat tracks.

R **ON A/C 001-100,

Post SB 25-2073 For A/C 001-100,

(c)Mark position of seat on seat tracks for subsequent installation and unlock seat stops (1) (Ref. Fig. 401).
(d)Release safety clips (2), loosen screws (1) and unlock seat stops (3) (Ref. Fig. 404).
(e)Slide passenger seat free from seat tracks and remove.
(2)Remove seat track adapter and distance piece if installed (Ref. Fig. 402, 403).
(a)Mark position of seat track adapter (1) on seat tracks for subsequent installation.
(b)Loosen nuts (2) and unlock stops (3).
(c)Slide seat track adapter free from seat tracks.
(d)Remove distance piece (4) from gap between seat tracks.

**ON A/C ALL

C. Preparation for Installation
(1)Inspect passenger seats (Ref. 25-21-00, P. Block 601).
(2)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(3)If necessary install new placards (Ref. 11-00-00, P. Block 1).

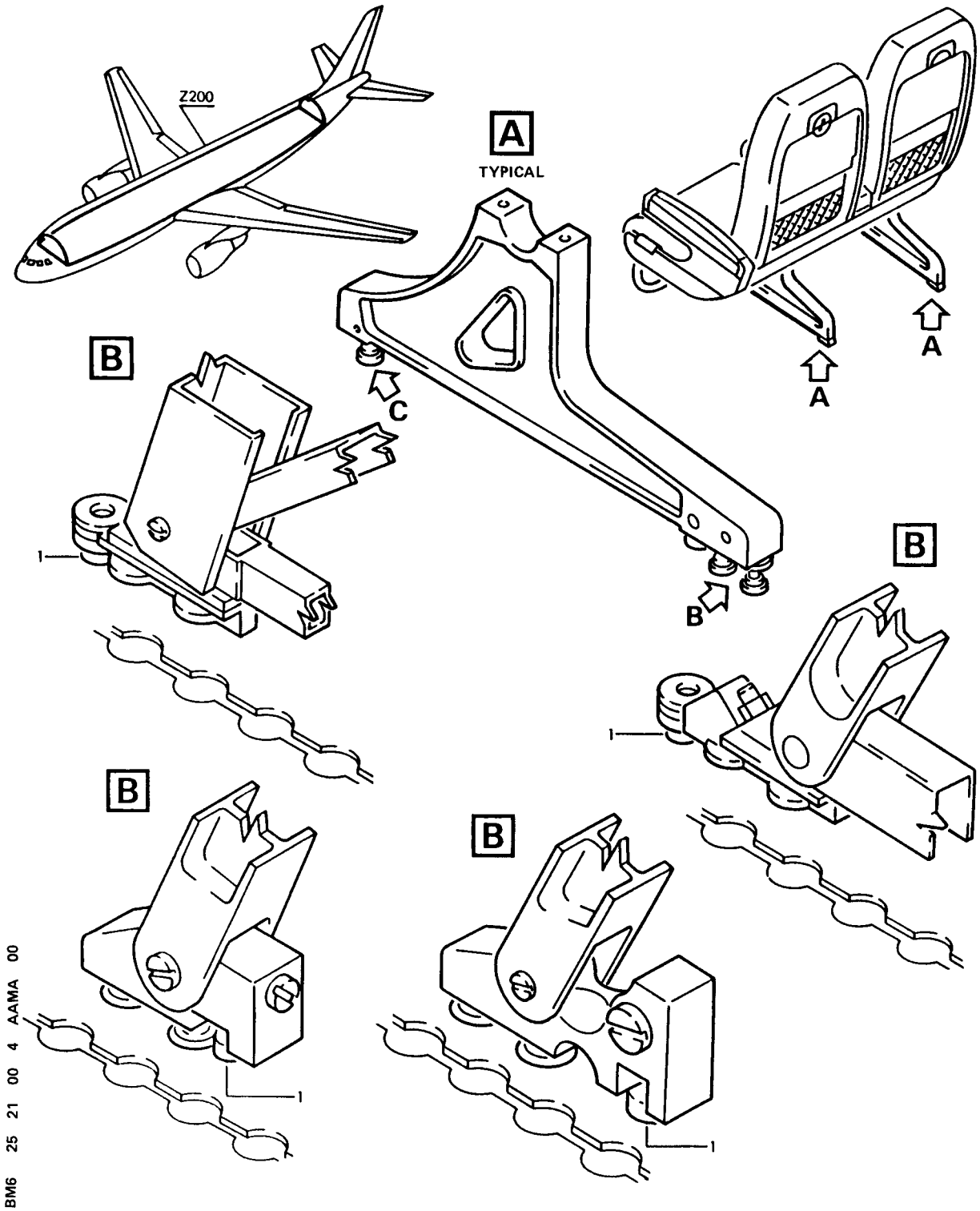
**ON A/C 001-004, 101-200,

D. Installation
(1)Install seat track adapter and distance piece if necessary (Ref. Fig. 402, 403).
(a)Position seat track adapter (1) on marked seat track location.
(b)Lock stops (3) and tighten nuts (2).
(c)Insert distance piece (4) in gap between seat tracks.
(2)Position passenger seat on marked seat track locations (Ref. Fig. 401).
R (3)Lock seat stops (1). For the relevant torque values, refer to Tables
R below.
WARNING : MAKE SURE THAT THERE IS NO PLAY BETWEEN THE SEATLOCKS AND THE SEAT TRACKS.
IF THE SEATS BECOME LOOSE, IT CAN CAUSE INJURY TO PASSENGERS OR DAMAGE TO THE SEATS.
(4)Remove blanking caps, connect electrical connectors and install covers.
(5)Install seat track covers.

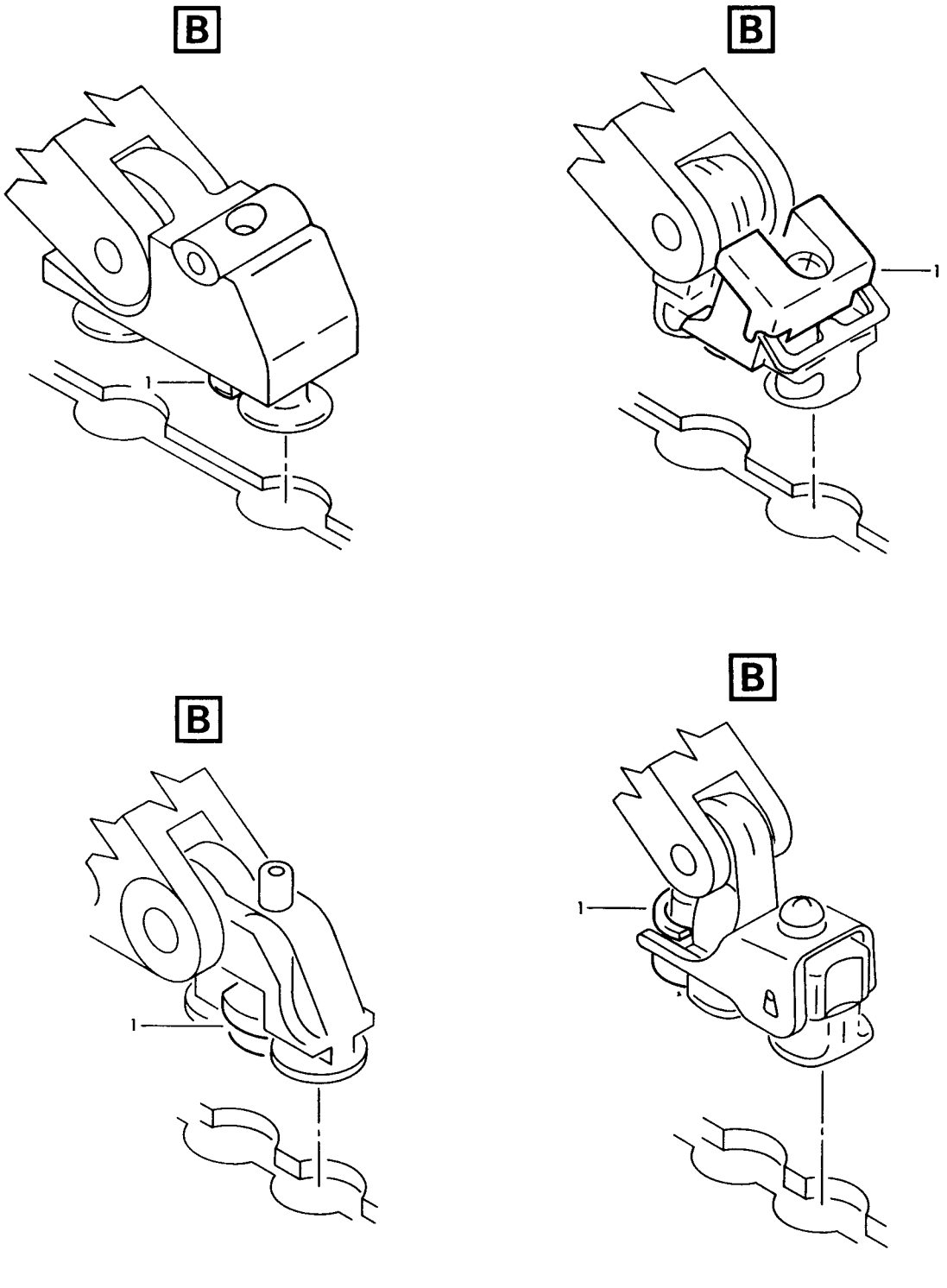
**ON A/C 001-100,

Post SB 25-2073 For A/C 001-100,

D. Installation
(1)Install seat track adapter and distance piece if necessary




Passenger Compartment Seats - Attachments
Sheet 1/3
Figure 401

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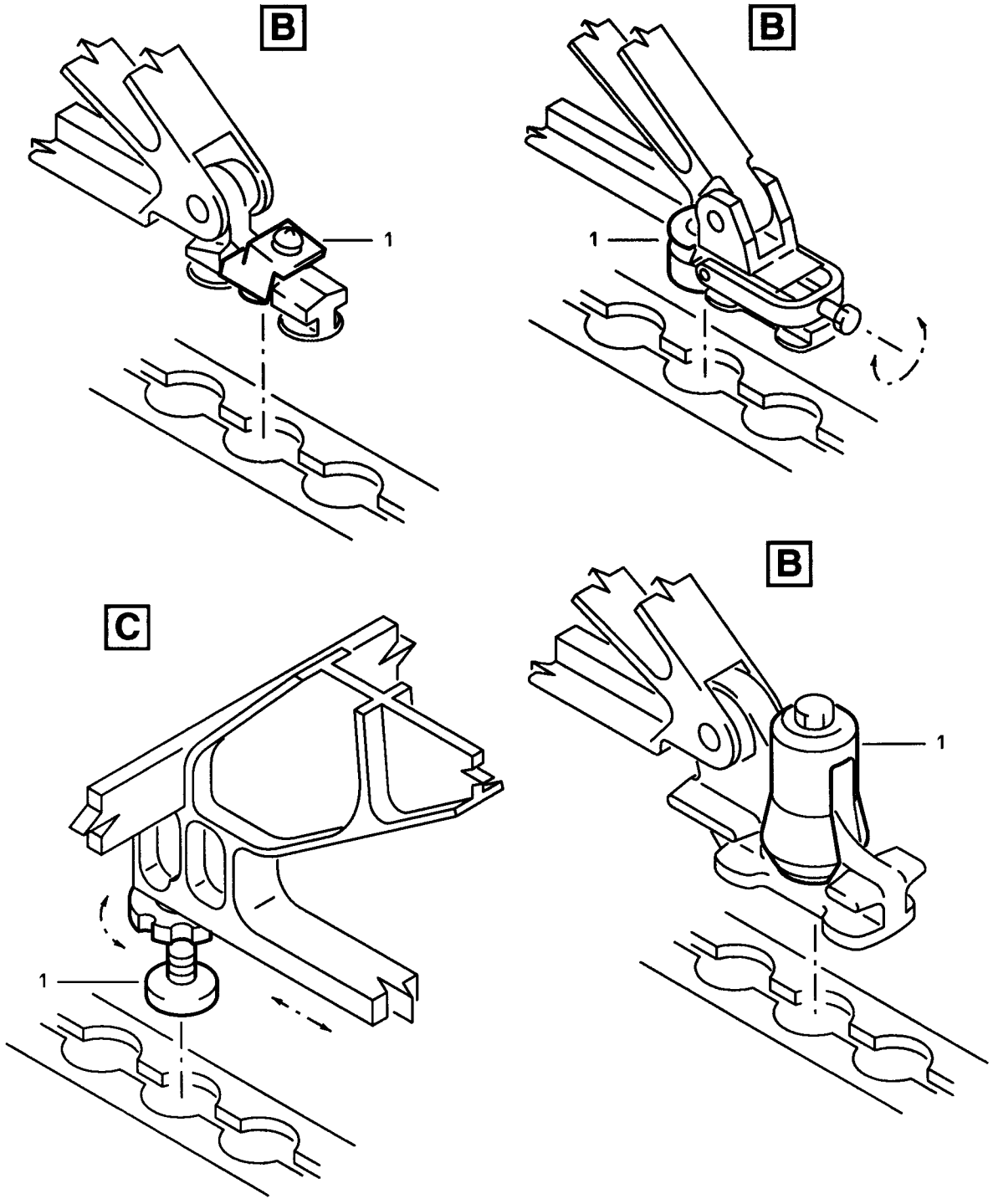
Passenger Compartment Seats - Attachments
Sheet 2/3
Figure 401

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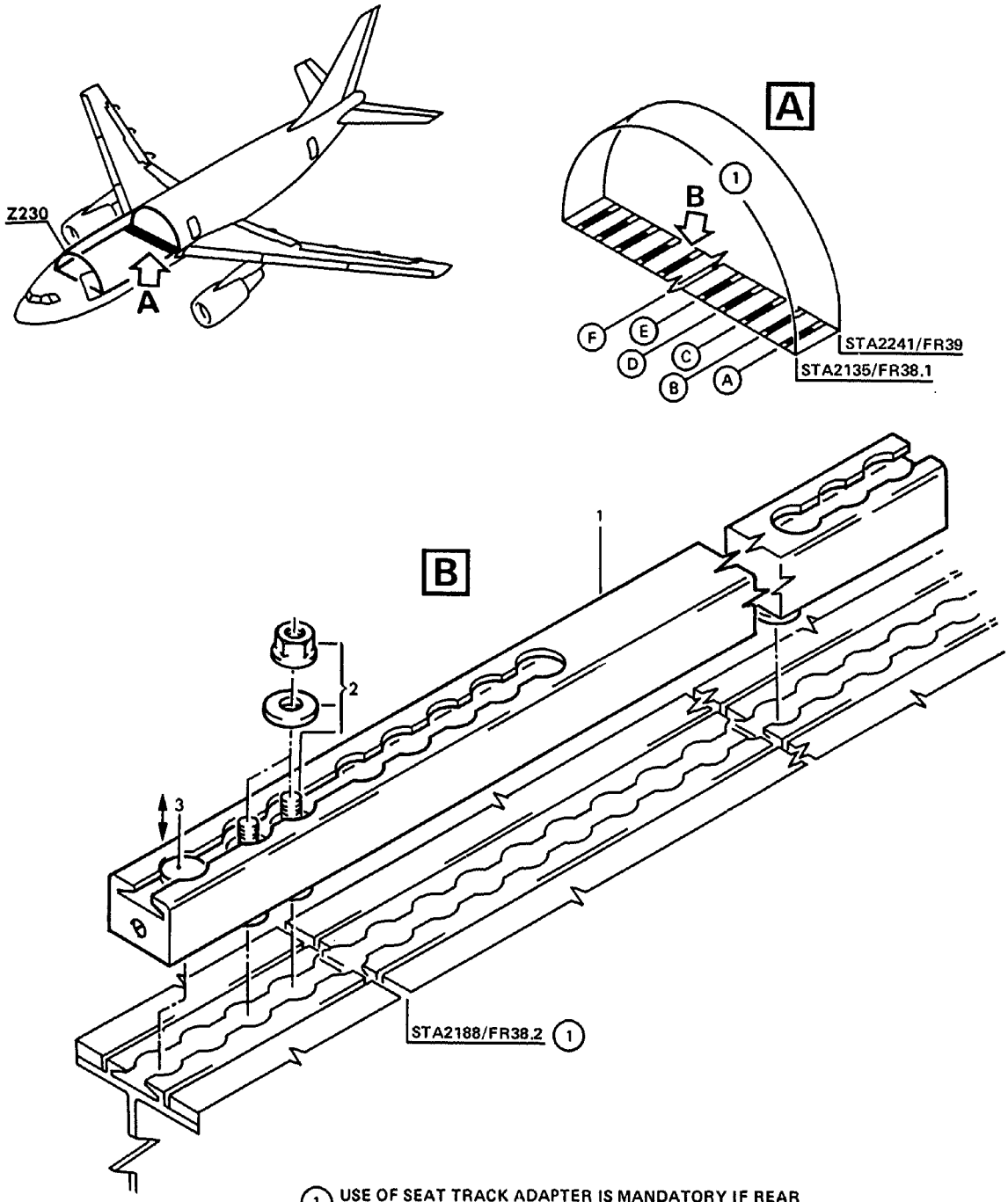
Passenger Compartment Seats - Attachments
Sheet 3/3
Figure 401

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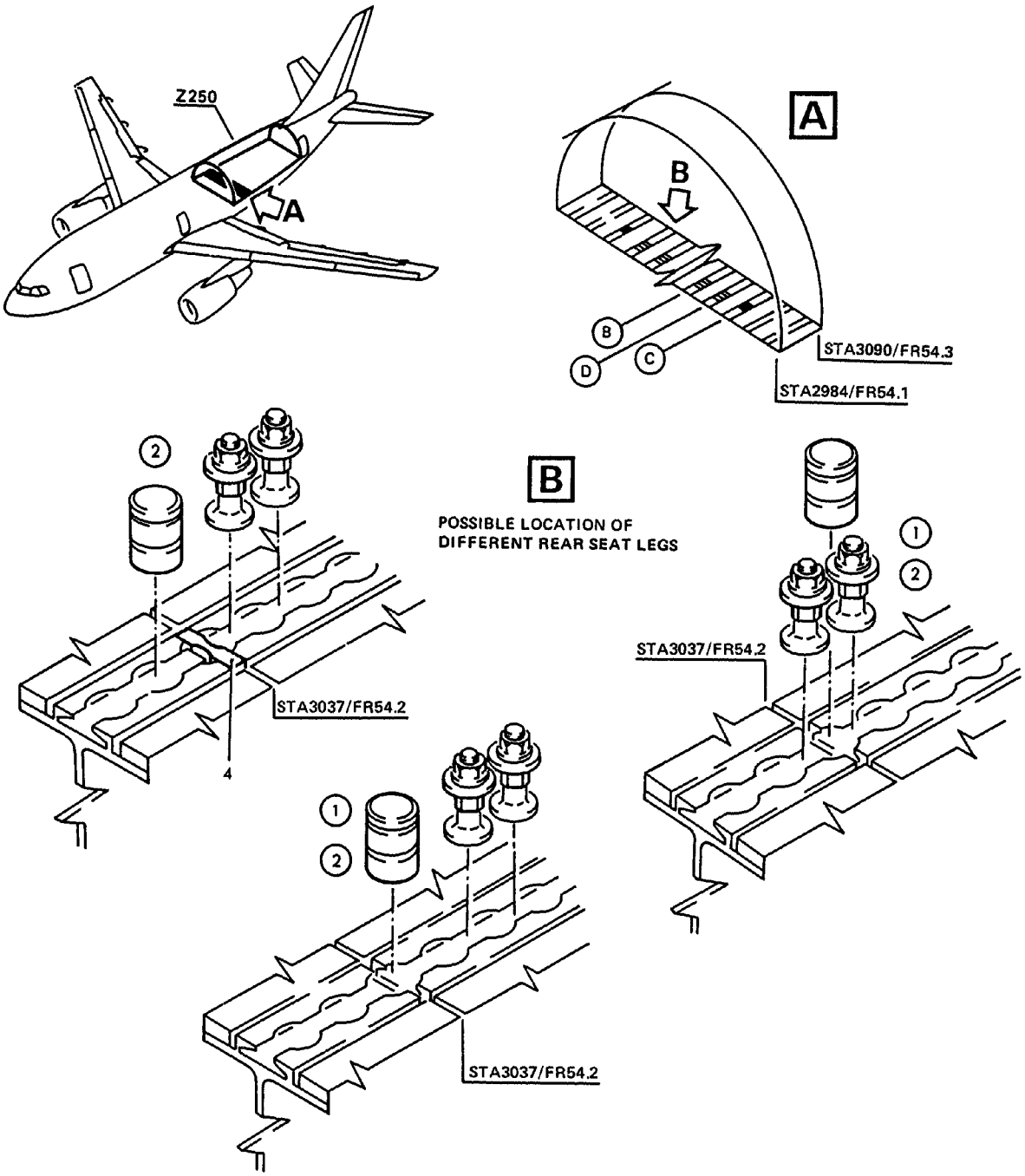
Seat Track Adapter
Figure 402

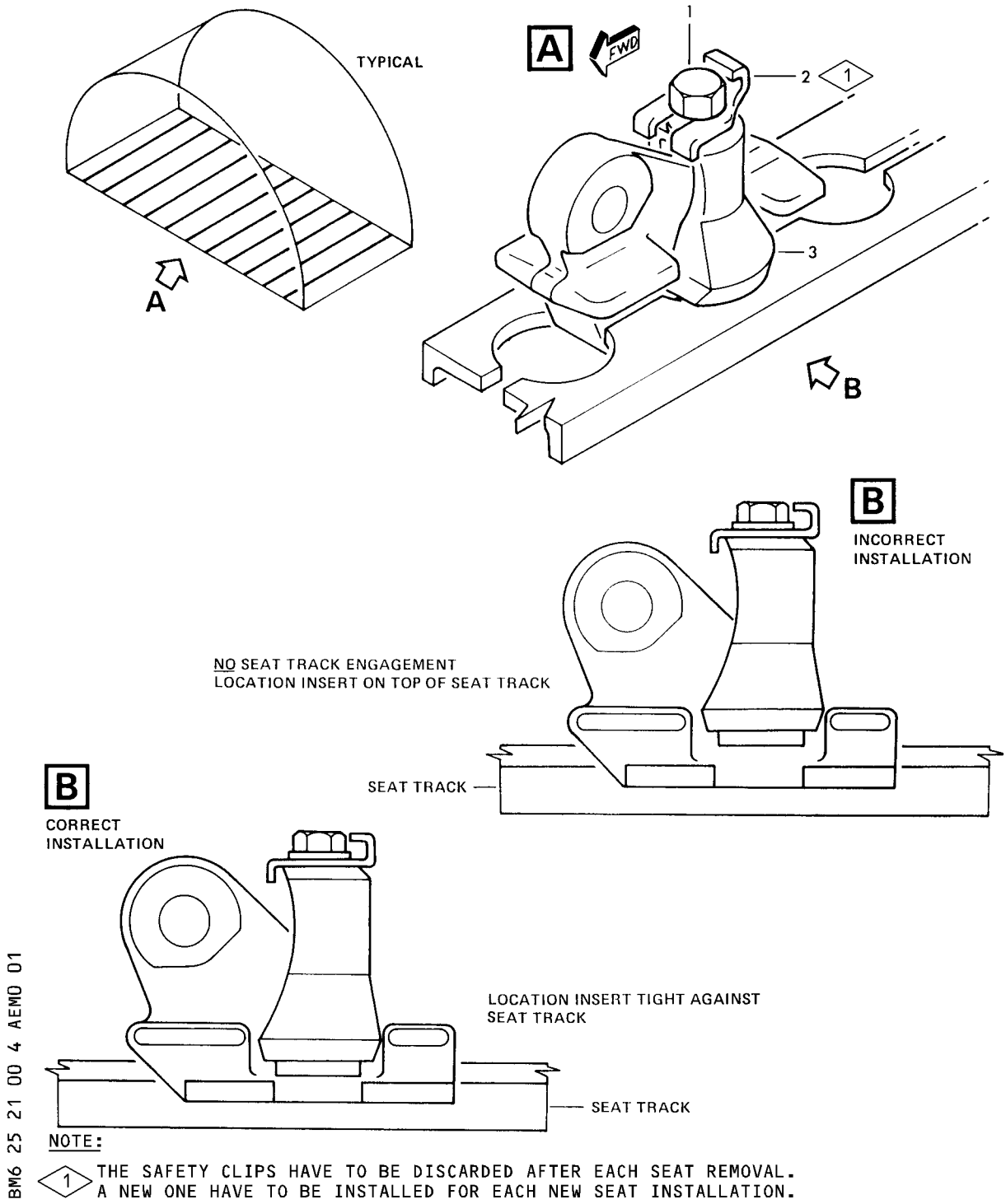



BM6 25 21 00 4 ACMO 00

(1) SEAT STOP HAS SAME FUNCTION AS DISTANCE PIECE

(2) IF DISTANCE PIECE CANNOT BE INSTALLED, POSITION SEAT SO THAT FITTINGS ARE LOCATED FWD OR AFT OF SEAT TRACK JUNCTION

Distance Piece
Figure 403

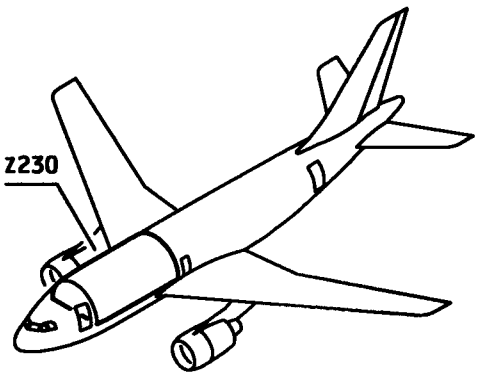


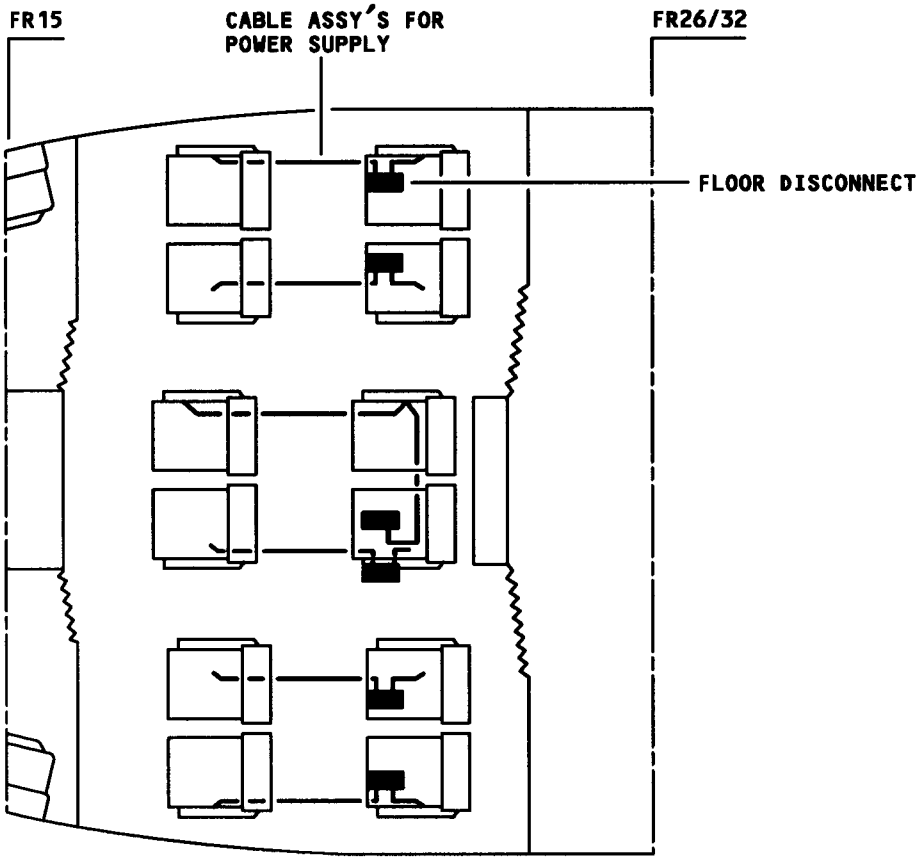

BM6 25 21 00 4 AEMD 01

NOTE:

1 THE SAFETY CLIPS HAVE TO BE DISCARDED AFTER EACH SEAT REMOVAL. A NEW ONE HAVE TO BE INSTALLED FOR EACH NEW SEAT INSTALLATION.

Seat Assembly Fitting
Figure 404




BM6 25 21 00 4 AFM0 00

Seat to Seat Cables at Sleeper Seats
Figure 405

(Ref. Fig. , 402).
(a)Position seat track adapter (1) on marked seat track location.
(b)Lock stops (3) and tighten nuts (2).
(c)Insert distance piece (4) in gap between seat tracks
(Ref. Fig. , 403).
(2)Position passenger seat on marked seat track locations (Ref. Fig. 401).
(3)Lock seat stops (1).
(4)Lock seat stop (3). Locate insert tight against seat track
(Ref. Fig. 404)
R (a)Tighten screws (1). For the relevant torque values, refer to Tables
R below.
(b)Secure safety clips (2).
R NOTE : The old safety clips must be discarded after each seat removal.
R New safety clips must be installed for each new seat
R installation.
WARNING : MAKE SURE THAT THERE IS NO PLAY BETWEEN THE SEATLOCKS AND THE SEAT TRACKS.
IF THE SEATS BECOME LOOSE, IT CAN CAUSE INJURY TO PASSENGERS OR DAMAGE TO THE SEATS.
(5)Remove blanking caps, connect electrical connectors and install covers.
(6)Install seat track covers.

**ON A/C 005-100,

D. Installation
(1)Install seat track adapter and distance piece if necessary
(Ref. Fig. 402, 403).
(a)Position seat track adapter (1) on marked seat track location.
(b)Lock stops (3) and tighten nuts (2).
(c)Insert distance piece (4) in gap between seat tracks.
(2)Position passenger seat on marked seat track locations (Ref. Fig. 401).
R (3)Lock seat stops (1). For the relevant torque values, refer to Table 401.
WARNING : MAKE SURE THAT THERE IS NO PLAY BETWEEN THE SEATLOCKS AND THE SEAT TRACKS.
IF THE SEATS BECOME LOOSE, IT CAN CAUSE INJURY TO PASSENGERS OR DAMAGE TO THE SEATS.
(4)Remove blanking caps, connect electrical connectors and install covers
(Ref. Fig. 405).
(5)Install seat track covers.

R **ON A/C ALL

R RECARO SEATS

| Dwg-No. (serie) | Model Type | TORQUE VALUE lbf.in. (m.daN) | | | |
|---|---|---|---|---|---|
| | | Front stud | Nut front stud | Screw for rear fitting attachment | Rear fitting screw anti-rattle |
| 160 | 3010 | N/A | 177 (2.0) | 88 (1.0) | N/A |
| 168 | 3010 | | | | |
| 173 | 3010 | | | | |
| 181 | 3010 | | | | |
| 183 | 3010 | | | | |
| 186 | 3010 | | | | |
| 187 | 3010 | | | | |
| 504 | 3210 | N/A | 177 (2.0) | 88 (1.0) | N/A |
| 508 | 3210 | | | | |
| 521 | 3210 | | | | |
| 523 | 3210 | | | | |
| 524 | 3210 | | | | |
| 552 | 3230 | N/A | 177 (2.0) | 88 (1.0) | N/A |
| 559 | 3230 | | | | |
| 567 | 3230 | | | | |
| 578 | 3230 | | | | |
| 570 | 3230 | N/A | 177 (2.0) | 88 (1.0) | 40 (0.45) |
| 573 | 3230 | | | | |
| 259 | 4010 | N/A | 177 (2.0) | 88 (1.0) | N/A |
| 269 | 4010 | | | | |
| 272 | 4010 | | | | |
| 275 | 4010 | | | | |
| 277 | 4010 | | | | |
| 279 | 4010 | | | | |
| 604 | 4210 | N/A | 177 (2.0) | 88 (1.0) | 40 (0.45) |
| 605 | 4210 | | | | |
| 606 | 4210 | | | | |
| 610 | 4210 | | | | |
| 617 | 4210 | | | | |
| 622 | 4210 | | | | |
| 625 | 4210 | | | | |
| 627 | 4210 | | | | |

R RECARO SEATS (CONTD.)

| Dwg-No. (serie) | Model Type | TORQUE VALUE lbf.in. (m.daN) | | | |
|---|---|---|---|---|---|
| | | Front stud | Nut front stud | Screw for rear fitting attachment | Rear fitting screw anti-rattle |
| 280 | 5010 | N/A | 177 (2.0) | 88 (1.0) | 40 (0.45) |
| 287 | 5010 | | | | |
| 289 | 5010 | | | | |
| 291 | 5010 | | | | |
| 293 | 5010 | | | | |
| 298 | 5010 | | | | |
| 300 | 5010 | | | | |
| 642 | 5210 | N/A | 177 (2.0) | 88 (1.0) | 40 (0.45) |
| 645 | 5210 | | | | |
| 648 | 5210 | | | | |
| 715 | 3410 | 88 (1.0) | 53 (6 max) | 88 (1.0) | 80 (0.9) |
| 723 | 3410 | | | | |
| 749 | 3410 | | | | |
| 805 | 4420 | 88 (1.0) | 53 (6 max) | 88 (1.0) | 80 (0.9) |
| 806 | 4420 | | | | |
| 907 | CVS | 88 (1.0) | 53 (6 max) | 88 (1.0) | 80 (0.9) |

R BRICE SEATS

| TORQUE VALUE lbf.in. (m.daN) | |
|---|---|
| Front fitting set screw | Rear fitting bolt |
| 10 - 25 (0.11 - 0.28) | 20 ± 5 (0.23 ± 0.06) |

KOITO SEATS

| TORQUE VALUE lbf.in. (m.daN) | |
|---|---|
| Front stud | Rear stud |
| 40 - 46 (0.45 - 0.52) | 26 - 30.5 (0.29 .0.34) |

SICMA SEATS

| TORQUE VALUE lbf.in. (m.daN) | |
|---|---|
| Front stud anti rattle nut | Rear stud screw |
| 85 ± 8.5 ( 1 ± 0.1) | 25 ± 1 (0.28 ± 0.01) |

R WEBER SEATS

R

| TORQUE VALUE lbf.in. (m.daN) for Seat Series 835572 | |
|---|---|
| Front stud | Screw for rear fitting attachment |
| 1/2-1/4 turn | 30 - 35 |

NOTE : For all Seat Torque Values not mentioned above, refer to the relevant seat vendor CMM.

E. Close-Up
(1)Remove safety clips and tags and close circuit breakers:
8002/20/02/01 MBBAEB

F. Close-Up *
(1)Remove safety clips and tags and close circuit breakers: *
21MK, 22MK. *

**ON A/C 005-200,

1HP, 2HP, 3HP.

**ON A/C 001-100,

21MK, 22MK.

**ON A/C 101-200,

20MK, 21MK, 22MK.

**ON A/C ALL

(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

F. Test
(1)Carry out operational tests of the following:
(a)Passenger Entertainment - Music (Ref. 23-33-00, P. Block 501).

**ON A/C 101-200,

(c)Passenger Service System (Ref. 23-38-00, P. Block 501).

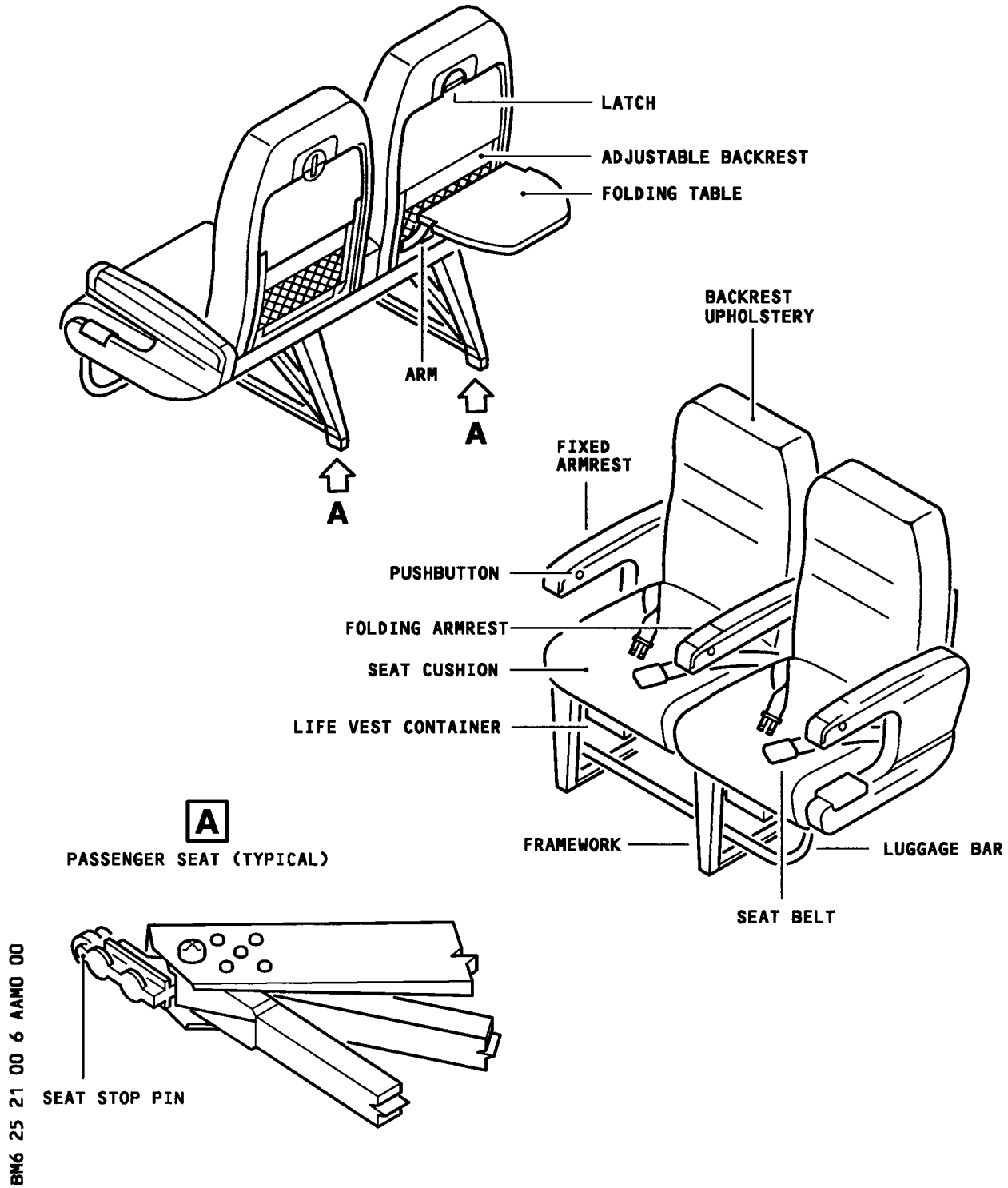
# PASSENGER COMPARTMENT SEATS - INSPECTION-CHECK

1. Reason for the Job

R A. Inspection of Seats, Seat Structure, Seat to Floor Attachment
R and Seat Belts

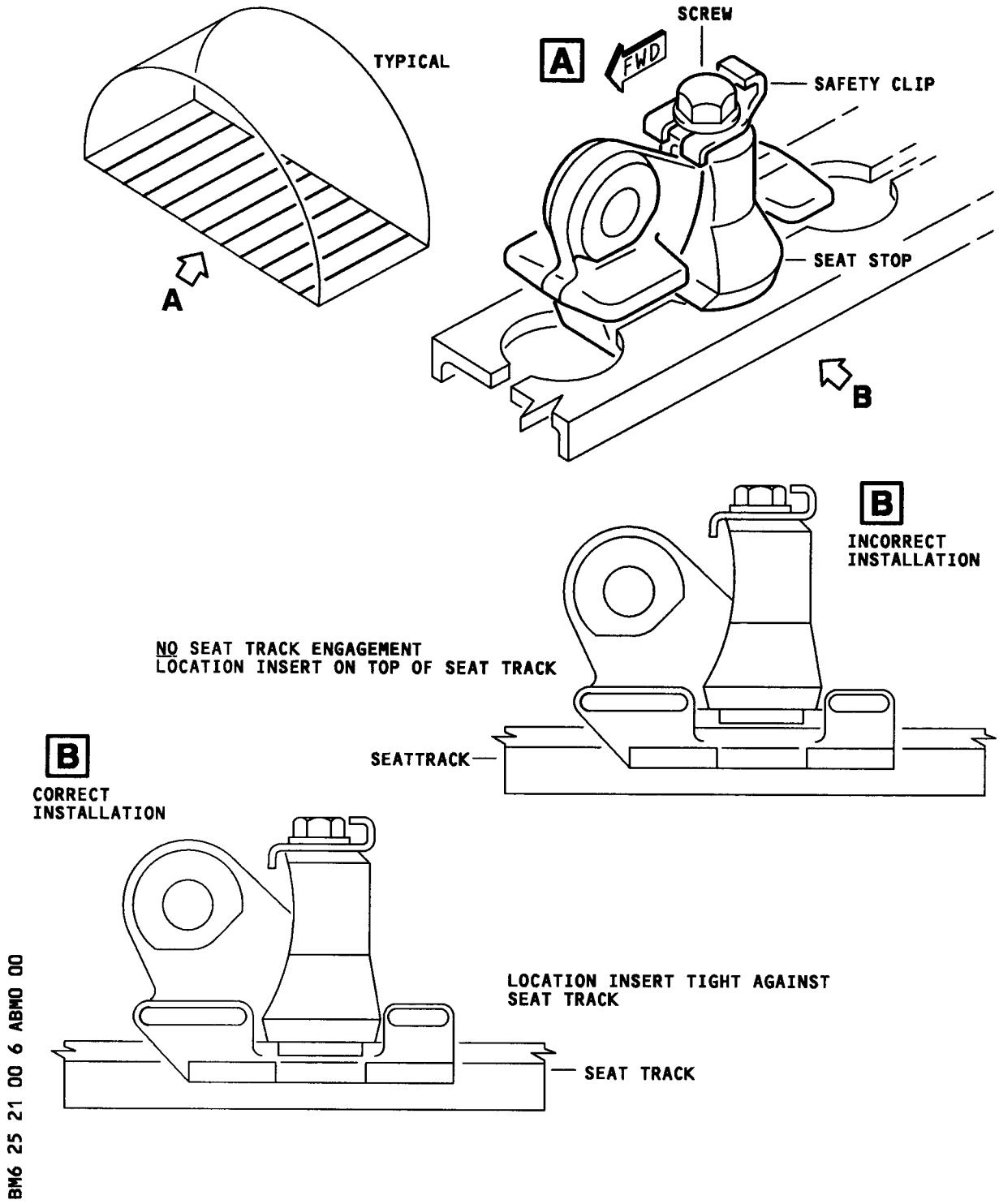
2. Procedure

R A. Inspection/Check (Ref. Fig. 601, 602, 603)
R NOTE : If any damage is established refer to vendor instructions.
R (1)Visual inspection of floor attachments.
R (a)Check that seat tracks, attach fittings and retainers are in correct
R condition and have no corrosion.
R (b)Check that the attaching parts are not loose in the seat tracks.
R (2)Visual inspection of electrical connectors.
R (a)At passenger seats check that electrical connectors and terminal strips
R are in good condition.
R (b)Check that there are no breaks or worn insulation in electrical
R wirings.
R (3)Visual inspection of seat structure.
R (a)Check that paint is not cracked and no corrosion is visible.
R (b)Check that identification plates are legible and correctly
R attached.
R (c)Check condition of welded parts and riveting.
R (d)Check that seat movements are not subject to excessive play.
R (e)Check that spring loaded seat pans at attendant seats are
R properly functioning.
R (4)Visual inspection of seat upholstery.
R (a)Make certain that seat cover fabric is free of wear, tears and fraying.
R (b)Check that Velcro tapes still adhere correctly.
R (c)Check cushion elasticity.
R (5)Visual inspection of seat belts.
R (a)Check that seat belts are neither worn nor torn.
R (b)Check that seat belt attachments and the buckles are in correct
R condition.
R (c)Check that the operation of the seat belt locking/unlocking system is
R correct.



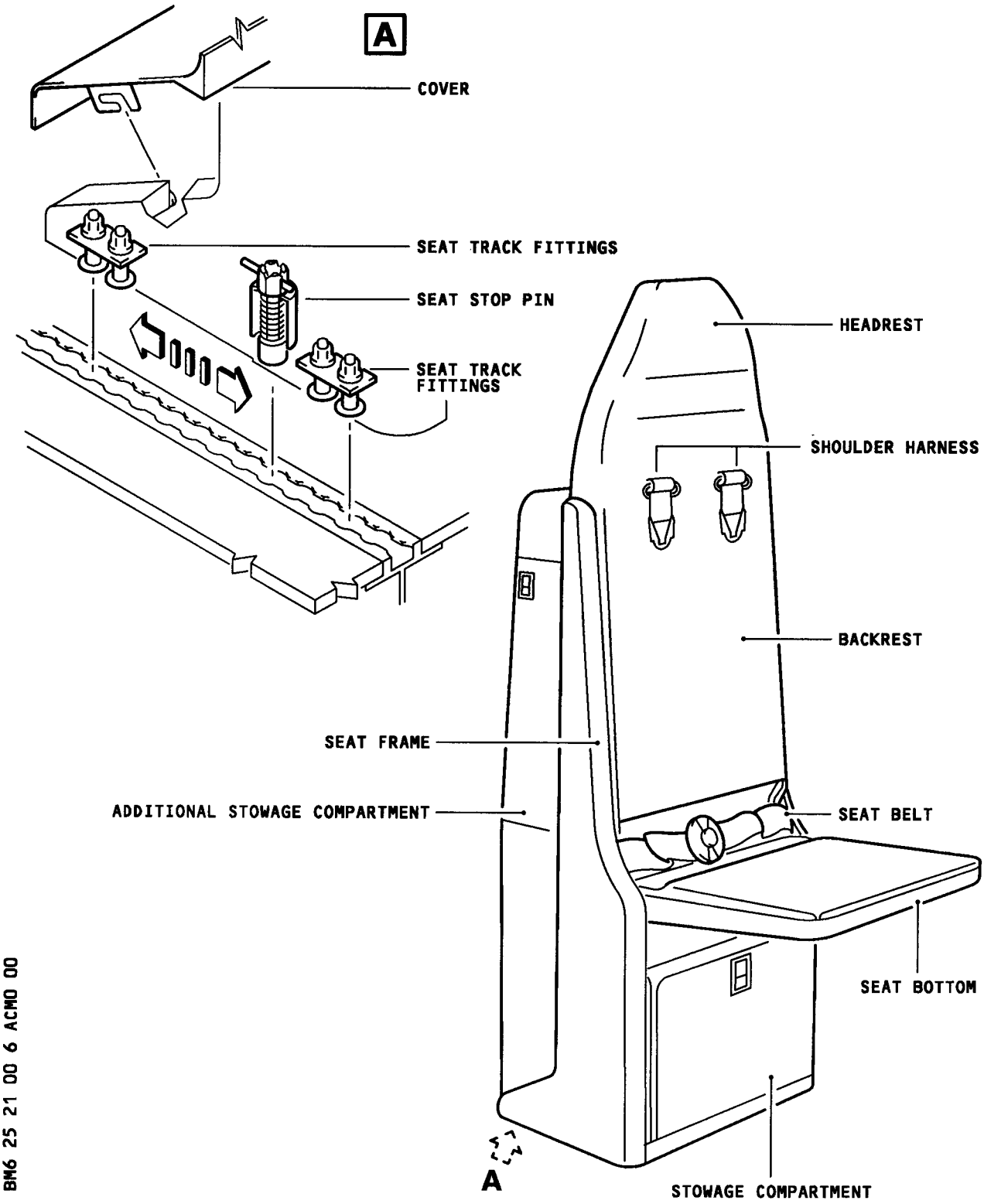

Passenger Seats
Figure 601

R




Seat Attachment
Figure 602

R




Attendant Seat
Figure 603

R

## CABIN ATTENDANT SWIVEL SEAT - REMOVAL/INSTALLATION

NOTE : The cabin attendant seats are similar but not interchangeable.

1. Reasons for the Job

A. Removal of sidewall panels

B. Repairs to seat

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. Material No. 08-013 | Bonding and Adhesive Compounds (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| R - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 25-21-00, P. Block 601 | Passenger Compartment Seats |

3. Procedure

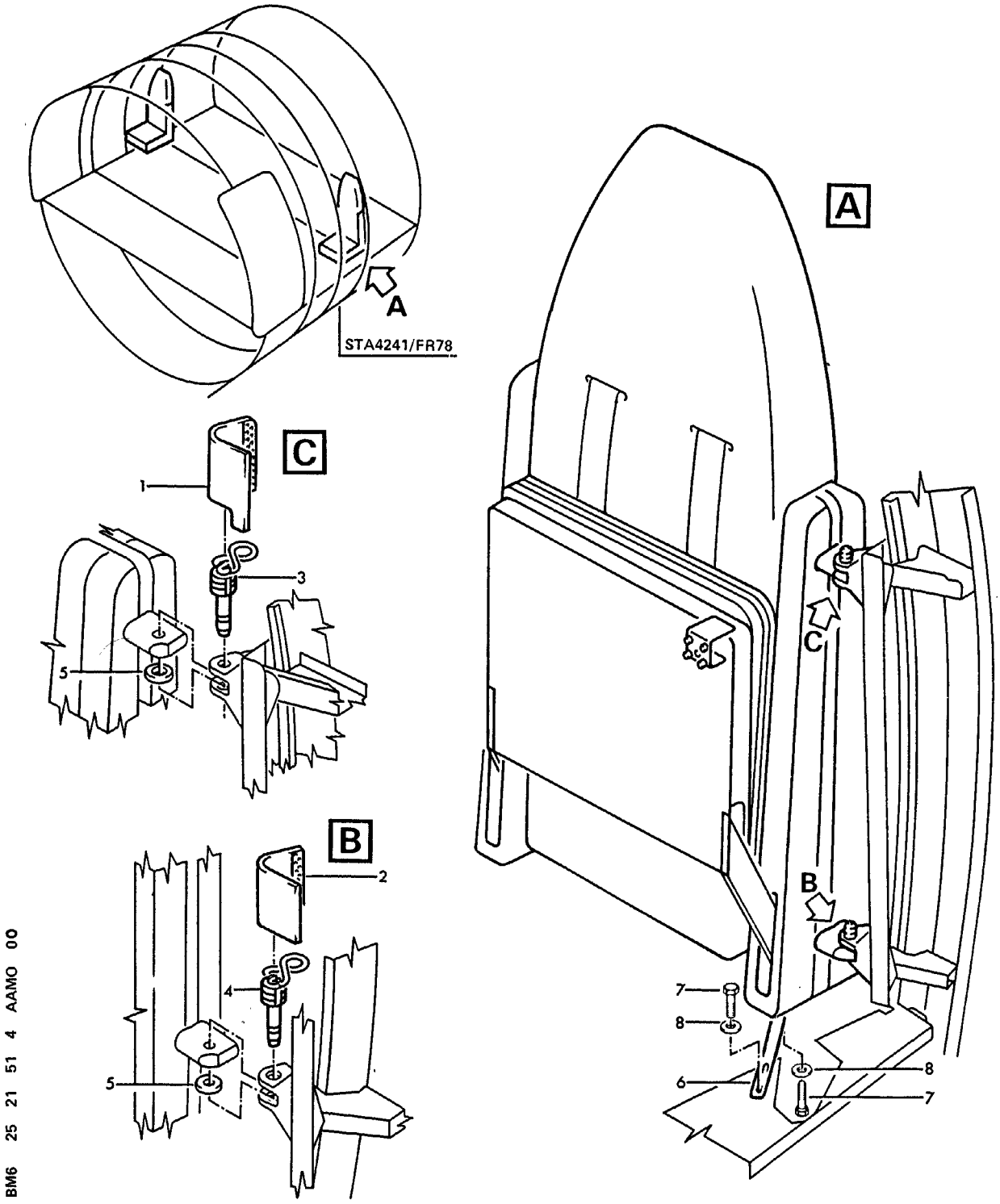
A. Job Set-Up
(1)Raise seat pan and pivot seat, but do not permit seat to lock.
R (2)Inspect swivel seats (Ref. 25-21-00, P. Block 601).

B. Removal
(Ref. Fig. 401)
(1)Remove screws (7), washers (8) and stop plate (6).
(2)Remove hinge covers (1, 2).
(3)Support attendant seat and remove pip pins (3, 4) and washers (5).
(4)Remove cabin attendant seat.
(5)Install hinge covers (1, 2).

R C. Preparation for Installation
R (1)Make certain that placards on replaced or repaired components are in
R correct position and in good condition.
R (2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

R D. Installation
(1)Remove hinge covers (1, 2).
(2)Position cabin attendant seat.
(3)Install pip pins (3, 4) and washers (5).
(4)Lock cabin attendant seat in rest position.
(5)Install hinge covers (1, 2).
(6)Coat threads of screws (7) with bonding compound (Mat. No. 08-013).
(7)Position stop plate and install with screws (7) and washers (8).

R E. Close-Up
(1)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.




Cabin Attendant Swivel Seat
Figure 401

## CABIN ATTENDANT SEAT, FREESTANDING
## REMOVAL/INSTALLATION

NOTE : The mounting of all cabin attendant seats is similar.

WARNING: CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

1. Reasons for the Job

A. Removal of sidewall panels

B. Repairs to seat

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. Material No. 04-002 | Common Greases (Ref. 20-31-00) |
| B. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| C. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| D. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | | |
|---|---|---|
| R | - 11-00-00, P. Block 1 | Placards and Markings - General |
| R | - 25-21-00, P. Block 601 | Passenger Compartment Seats |
| | - 25-26-00, P. Block 1 | Curtains and Partitions |
| | - 53-10-20, P. Block 601 | Floor Panels |
| | - 53-10-16, P. Block 601 | Seat Tracks |

3. Procedure

A. Job Set-Up
(1)Remove emergency equipment from stowage compartment, if necessary.
(2)Remove sealant from gap between seat and floor covering by pulling on cord surplus.
(3)Remove respective seat track covers.
R (4)Inspect attendant seats (Ref. 25-21-00, P. Block 601).

B. Removal

R **ON A/C 001-100,

(1)Remove cabin attendant seat (Ref. Fig. 401).

R **ON A/C 101-200,

R (1)Remove cabin attendant seat (Ref. Fig. 402).

R **ON A/C 001-100,

(a)Open seat stowage compartment door (1).
(b)Remove screws (2), washers (3) and detach safety belt rolls (4).
(c)Pull upholstered backrest (5) upward and remove.
(d)Remove bolts (6), washers (7) and metal bar (8).
(e)Remove screws (9, 11) and washers (10, 12).
(f)Remove attendant seat.

R **ON A/C 101-200,

R (a)Open stowage compartment door (1).
R (b)Remove screws (2) and detach safety belt reels (3).
R (c)Pull upholstered backrest (4) upward and remove from wall.
R (d)Remove screws (5), washers (6) and safety belt guide (7).
R (e)Remove screws (8) and washers (9).
R (f)Remove attendant seat.

R **ON A/C ALL

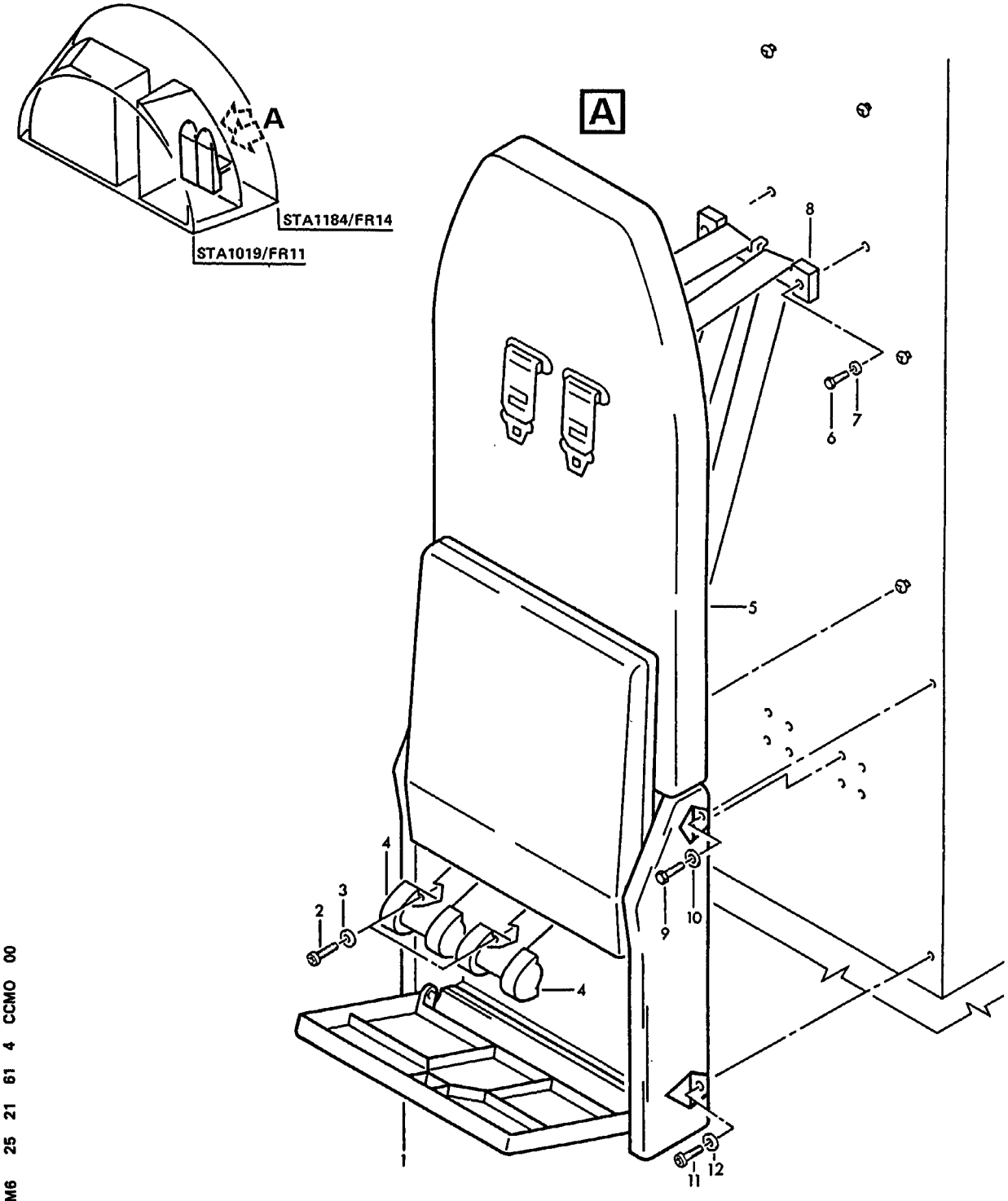
(2)Remove seats at partitions aft of Door I (Ref. Fig. 403).
(a)Open seat stowage compartment door.
(b)Remove bolts (3) and washers (4).
(c)Detach backrest upholstery by pulling free from Velcro tape.
(d)Support partition, remove bolts (1) and washers (2).
(e)Remove partition (Ref. 25-26-00, P. Block 1).
(f)Remove bolts (6), washers (5) and attendant seat.

R **ON A/C 001-100,

(3)Remove seat at FWD door (Ref. Fig. 404).
(a)Open seat stowage compartment door (1).
(b)Remove bolts (2) and washers (3).
(c)Remove attendant seat.

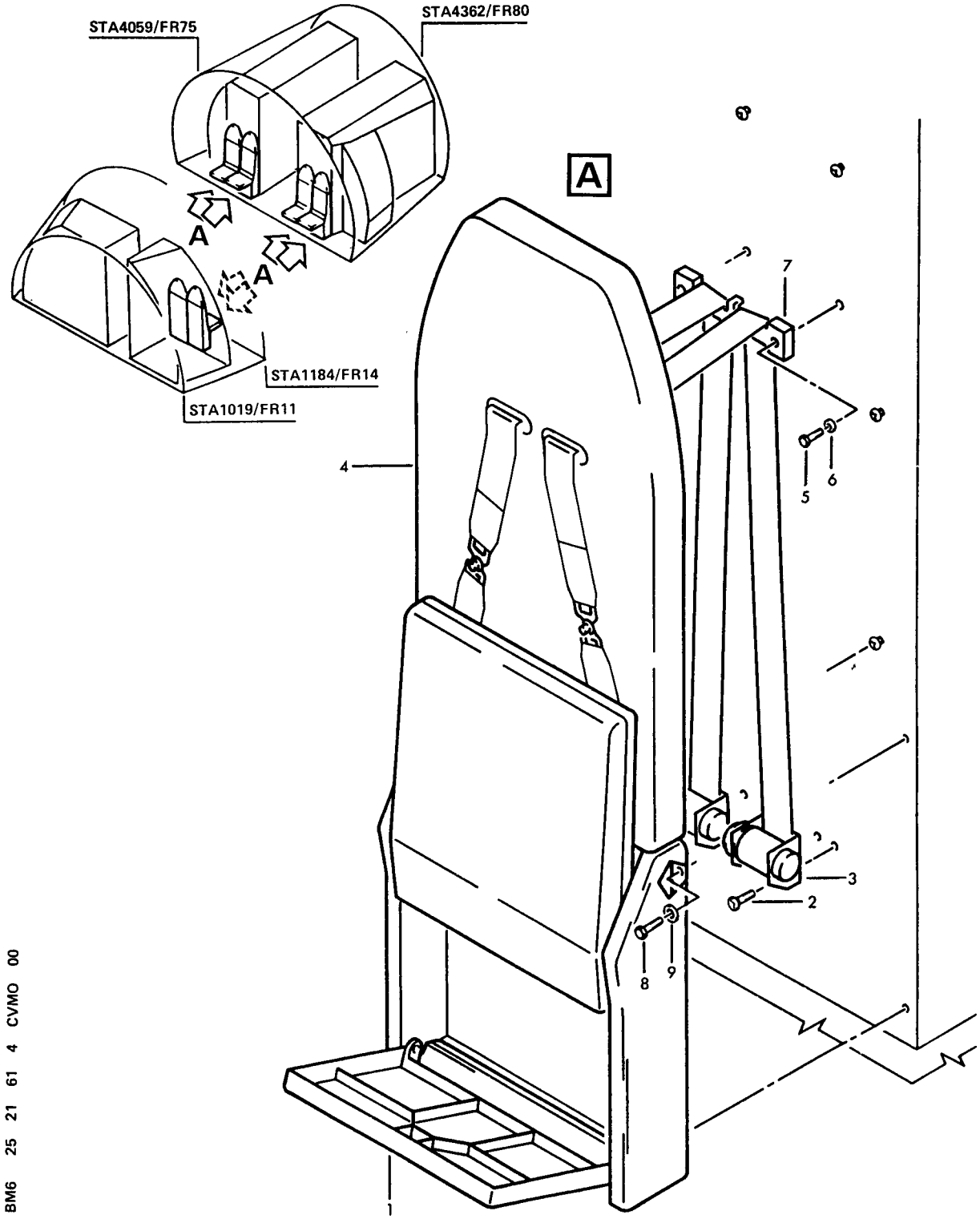
R **ON A/C 101-200,

R (3)Remove cabin attendant seat (Ref. Fig. 405).
R (a)Open seat stowage compartment door (1).
R (b)Remove bolts (2) and washers (3).
R (c)Remove attendant seat.



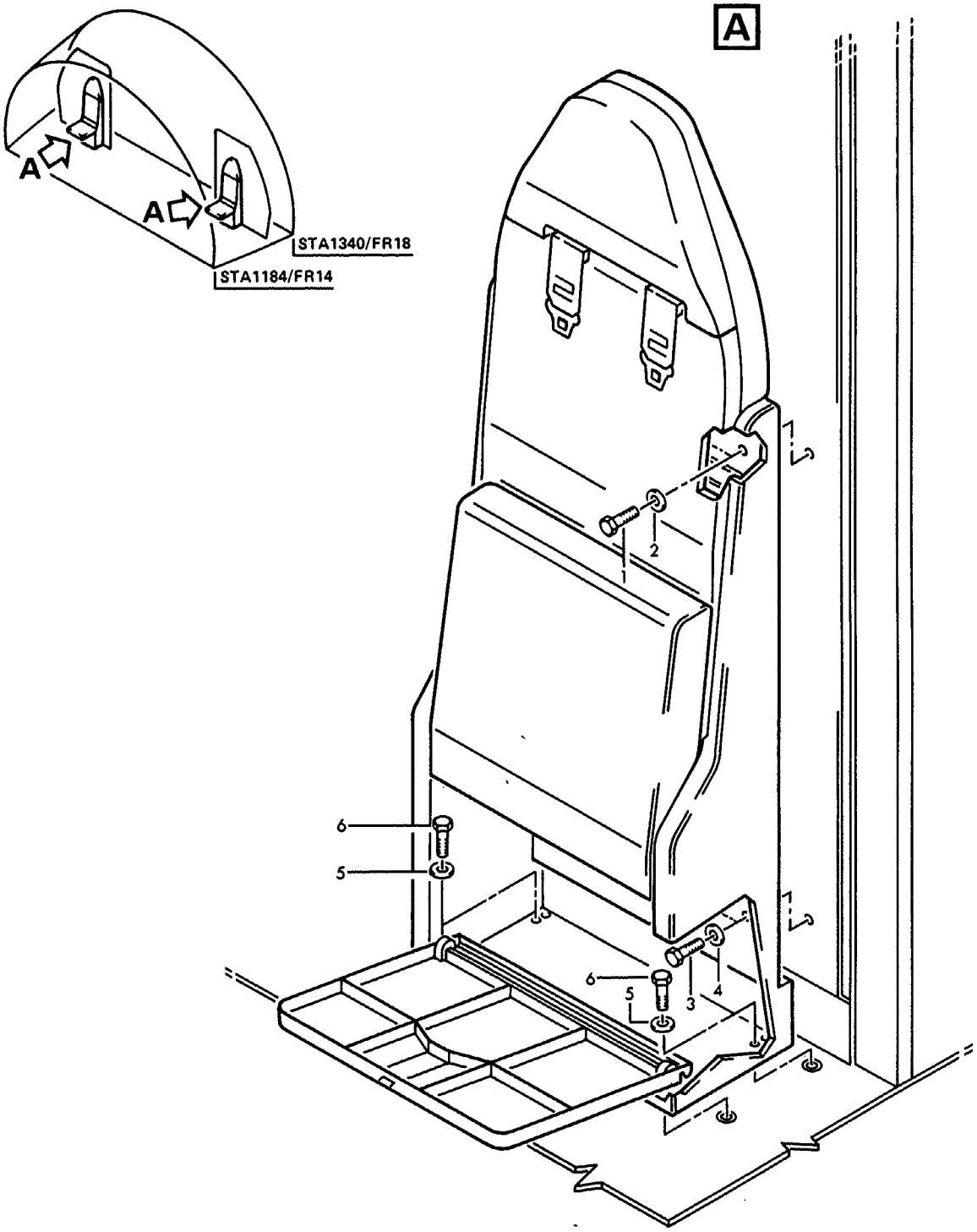

BM6 25 21 61 4 CCMO 00

Cabin Attendant Seat
Figure 401



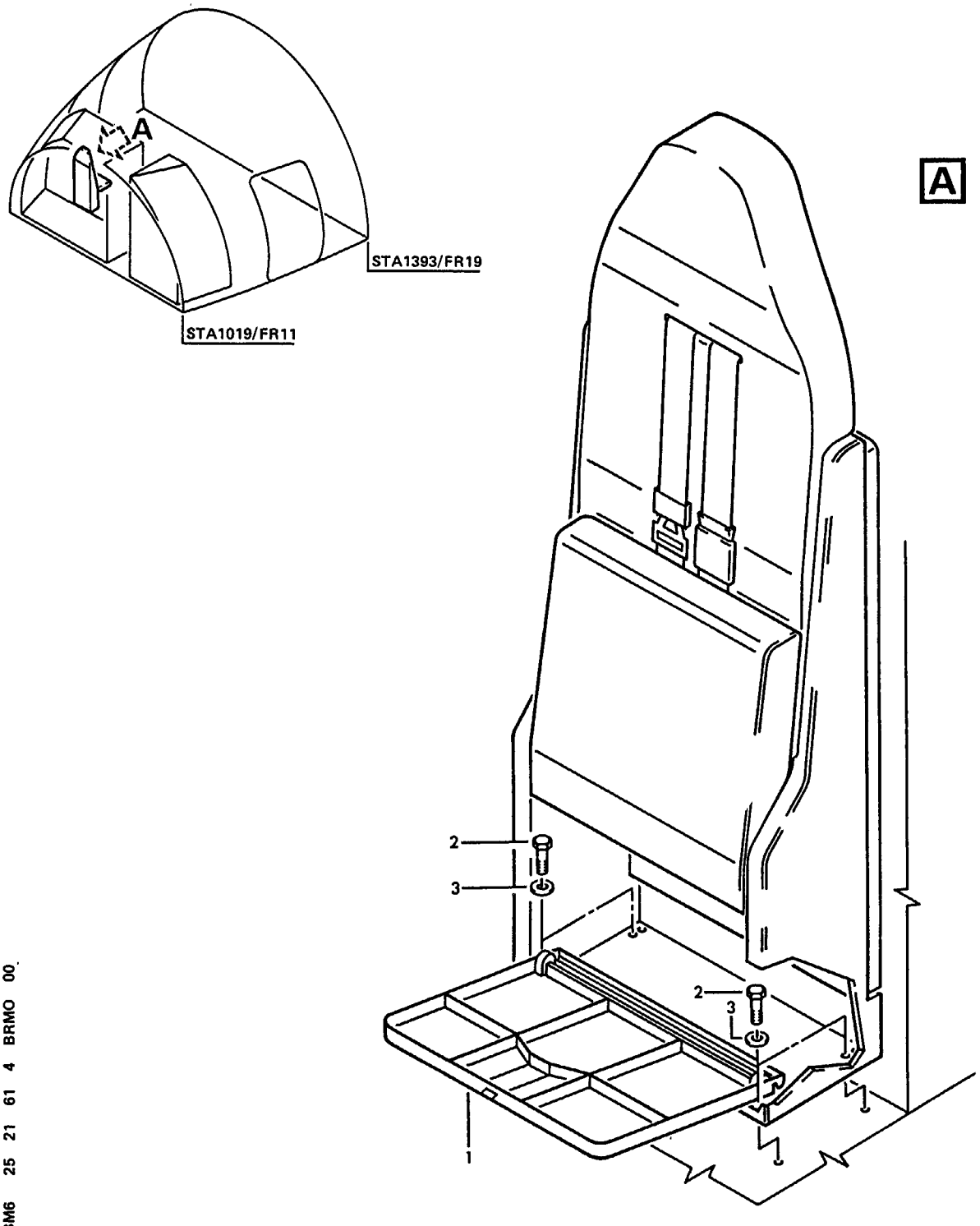

Cabin Attendant Seat
Figure 402

R



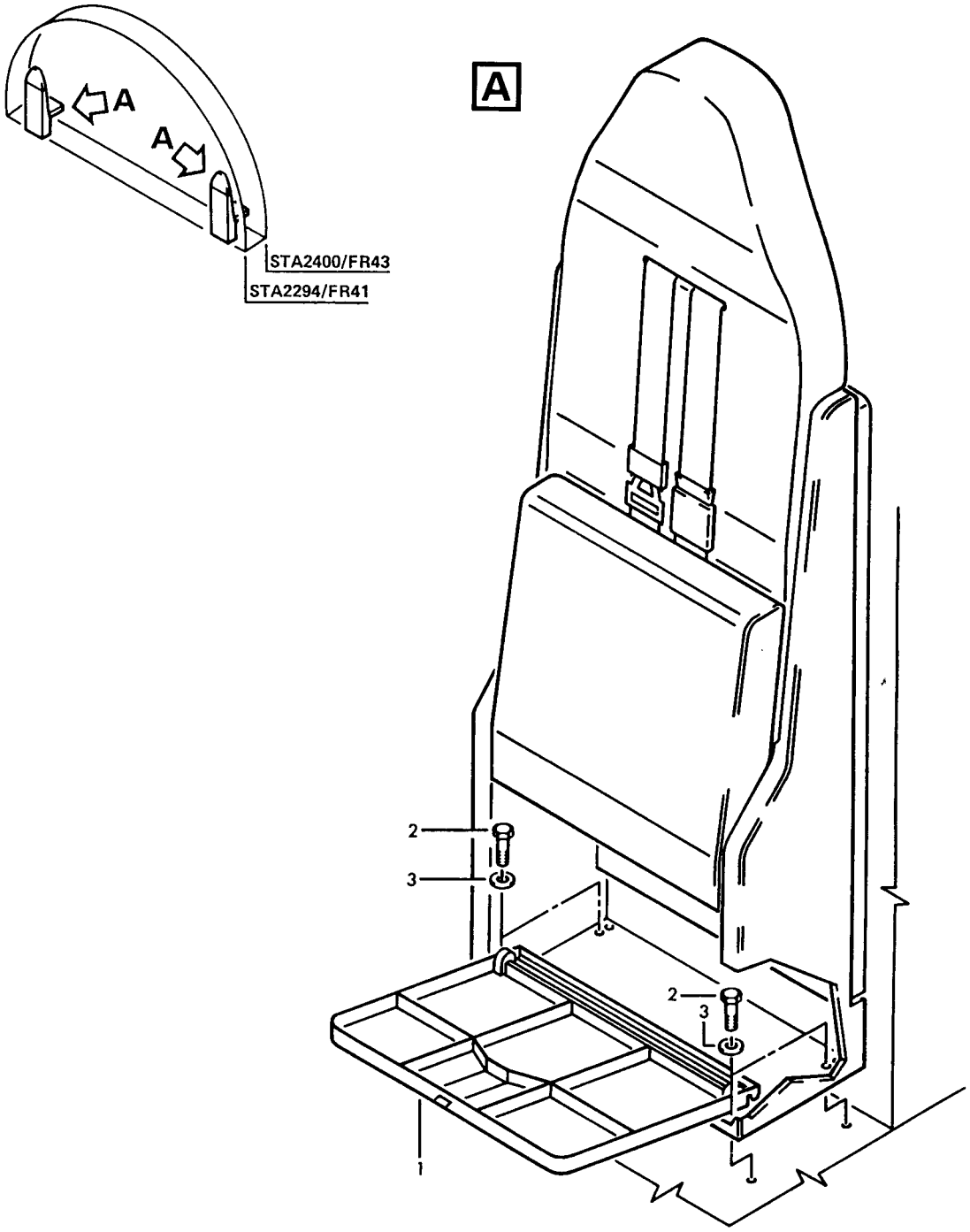

BM6 25 21 61 4 BH M0-24

Cabin Attendant Seat at Partition
Figure 403




BM6 25 21 61 4 BRMO 00

Cabin Attendant Seat - Floor-Mounted
Figure 404




BM6 25 21 61 4 CWMO 00

Cabin Attendant Seat - Floor Mounted
Figure 405

R **ON A/C 001-100,

(4)Remove cabin attendant seat (Ref. Fig. 406).
(a)Open stowage compartment door (1).
(b)Remove screws (2), washers (3) and detach safety belt rolls (4).
(c)Pull upholstered backrest (5) upward and remove from wall.
(d)Remove screws (6), washers (7) and metal bar (8).
(e)Remove screws (9) and washers (10).
(f)Remove attendant seat.
(5)Remove cabin attendant seat (Ref. Fig. 407).
(a)Open seat stowage compartment door (1).
(b)Loosen nuts (2). Do not remove.
(c)Lift seat stop pin (3) and rotate 90° until locked in position.
(d)Slide cabin attendant seat so that seat track fittings (4) line up with seat track cutouts.
(e)Lift attendant seat out of seat tracks.

R **ON A/C ALL

C. Preparation for Reinstallation
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(1)Remove sealant from floor panels using cleaning agent (Mat. No. 11-003).
(2)Inspect floor panels for damage (Ref. 53-10-20, P. Block 601).
(3)Inspect seat tracks (Ref. 53-10-16, P. Block 601).
(4)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(5)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation

R **ON A/C 001-100,

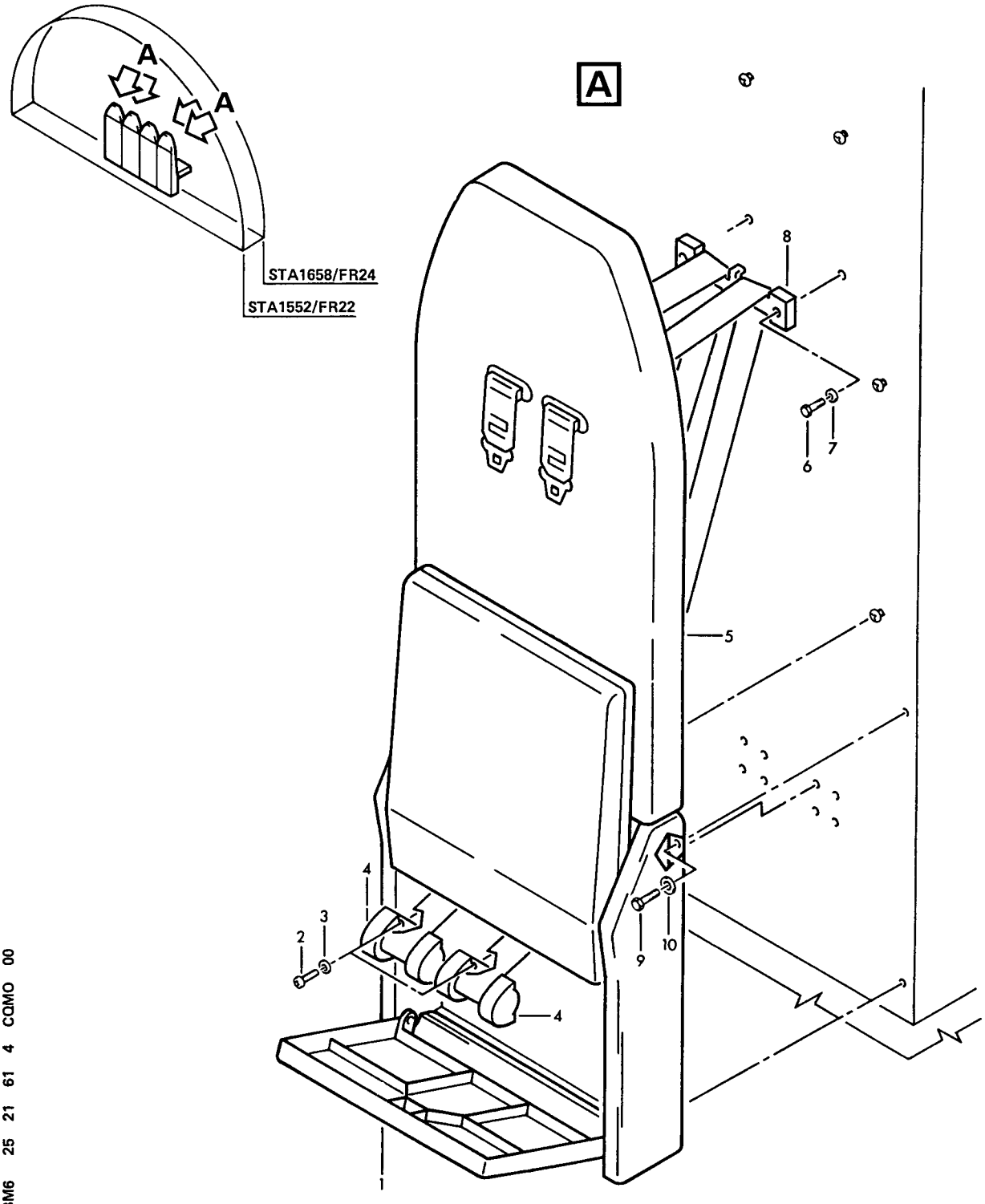
(1)Install cabin attendant seat (Ref. Fig. 401).

R **ON A/C 101-200,

R (1)Install cabin attendant seat (Ref. Fig. 402).

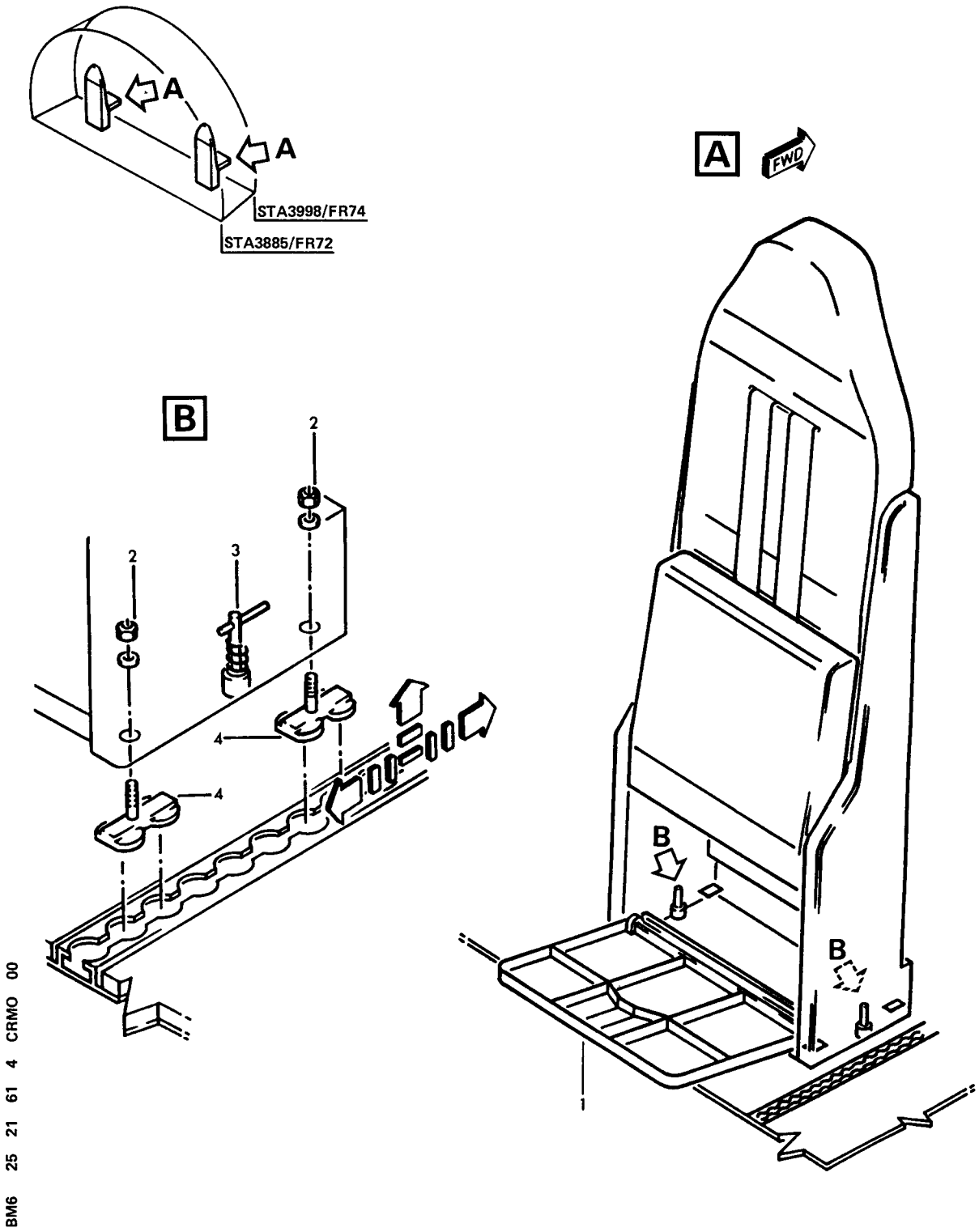
R **ON A/C 001-100,

(a)Position cabin attendant seat.
(b)Install screws (9, 11) and washers (10, 12).
(c)Position metal bar (8) and safety belt at wall, install screws (6) and washers (7).
(d)Position safety belt rolls (4), install screws (2) and washers (3).
(e)Position upholstered backrest (5) at wall and push down to secure.
NOTE :Screws at wall are adjustable.
(f)Close seat stowage compartment door (1).




BM6 25 21 61 4 COMO 00

Cabin Attendant Seat - Wall-Mounted
Figure 406




Cabin Attendant Seat on Seat tracks
Figure 407

R **ON A/C 101-200,

R (a)Position attendant seat.
R (b)Install washers (9) and screws (8).
R (c)Position safety belt guide (7) and safety belt at wall and install
R washers (6) and screws (5).
R (d)Position safety belt reels (3) and install screws (2).
R (e)Position upholstered backrest (4) on wall and push downwards
R to secure.
R NOTE : Screws on wall are adjustable.
R (f)Close stowage compartment door (1).

R **ON A/C ALL

(2)Install seats at partitions aft of Door I (Ref. Fig. 403).
(a)Position seat in installation position.
(b)Apply grease (Mat. No. 04-002) to threads of bolts (6).
(c)Install bolts (6) and washers (5).
(d)Install partition (Ref. 25-26-00, P. Block 1) at seat.
(e)Install bolts (1, 3) and washers (2, 4).
(f)Attach backrest upholstery so that Velcro tape has good contact.
(g)Close seat stowage compartment door.

R **ON A/C 001-100,

(3)Install seat at FWD door (Ref. Fig. 404).
(a)Position attendant seat.
(b)Apply grease (Mat. No. 05-002) to threads of bolts (2).
(c)Install bolts (2) and washers (3).
(d)Close seat stowage compartment door (1).

R **ON A/C 101-200,

R (3)Install cabin attendant seat (Ref. Fig. 405).
R (a)Position attendant seat.
R (b)Apply grease (Mat. No. 05-002) to threads of bolts (2).
R (c)Install bolts (2) and washers (3).
R (d)Close seat stowage compartment door (1).

R **ON A/C 001-100,

(1)Install cabin attendant seat (Ref. Fig. 406).
(a)Position attendant seat.
(b)Install screws (9) and washers (10).
(c)Position metal bar (8) and safety belt at wall and install screws (6)
and washers (7).
(d)Position safety belt rolls (4) and install screws (2) and washers (3).
(e)Position upholstered backrest (5) at wall and push downwards to secure.
NOTE : Screws at wall are adjustable.
(f)Close stowage compartment door (1).

(5)Install cabin attendant seat (Ref. Fig. 407).
(a)Apply grease (Mat. No. 05-002) to seat tracks in attachment area.
(b)Place cabin attendant seat in seat tracks and slide into position.
(c)Rotate and release seat stop pin (3) and make certain that pin engages in seat track cutout.
(d)Tighten nuts (2).
(e)Close seat stowage compartment door (1).

R **ON A/C ALL

E. Close-Up
(1)Replace emergency equipment in seat stowage compartments as required.
(2)Install seat rail covers.
(3)Position cord (Mat. No. 05-016) at gap between seat and aircraft floor leaving surplus of approx. 100 mm (4 in.) at seat rear and apply sealant (Mat. No. 09-016), to cover cord except for surplus.
NOTE : On seats fitted to galley or lavatory wall, continue sealant run to extend upwards approx. 30 mm (1.2 in.) along gap between seat and wall.
(4)Install partitions (Ref. 25-26-00, P. Block 1) if removed.
(5)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# HEAT AND SOUND INSULATION - DESCRIPTION AND OPERATION

## 1. General

The thermal and sound insulation of the passenger compartment consists of two groups:

A. The primary insulation covers the whole fuselage structure in the pressurized area, including all external doors.

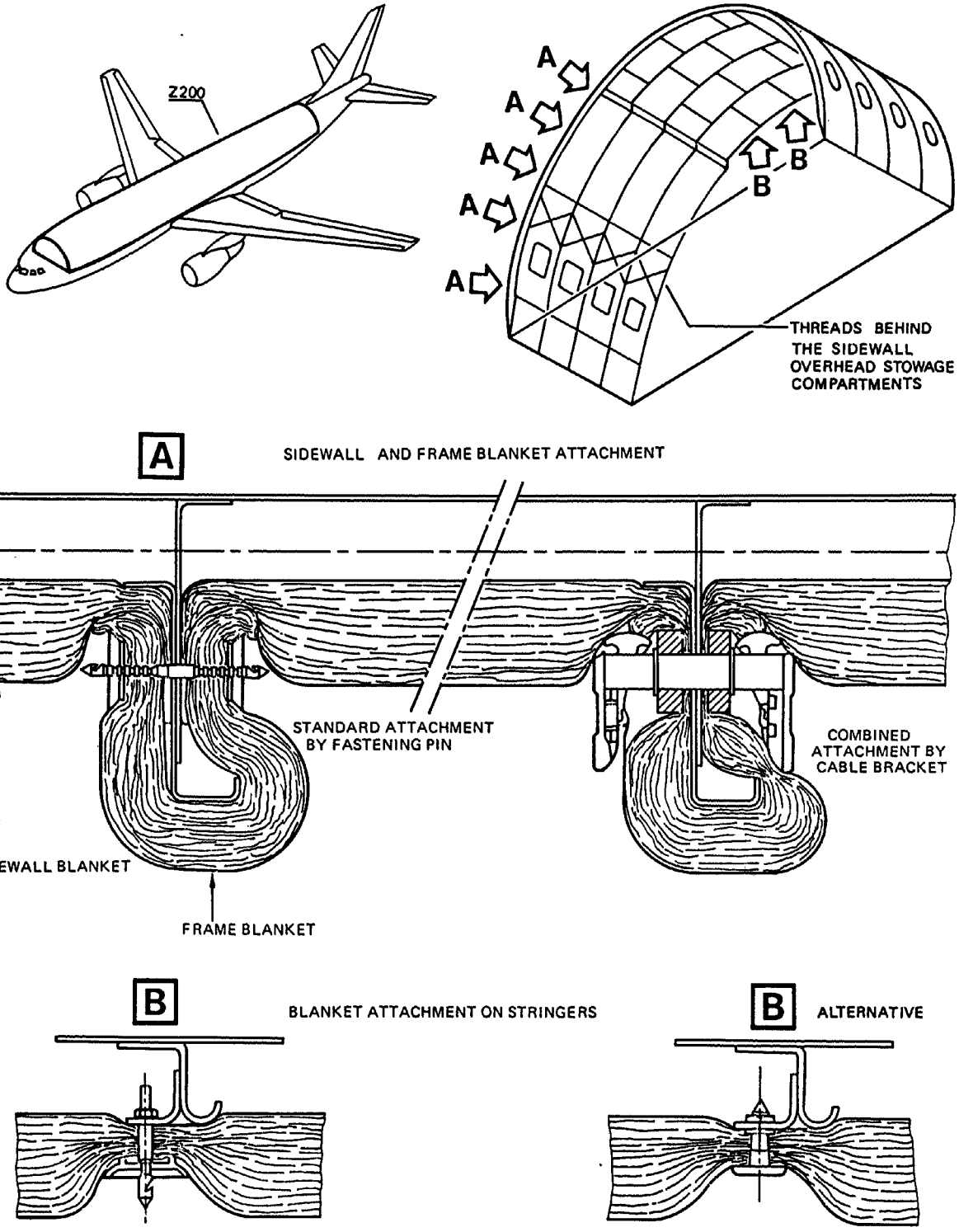
B. The secondary insulation is attached to the outboard side of the sidewall panels, to the back of the sidewall overhead stowage compartments, to the fluorescent light covers and door frame covers.

## 2. Description

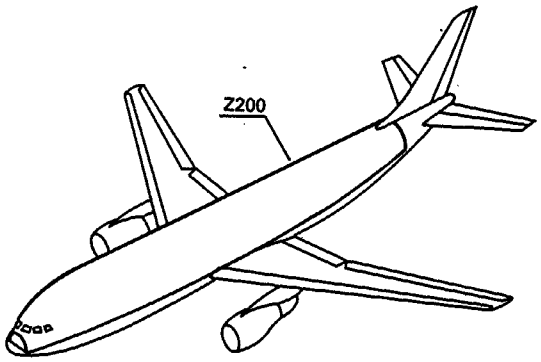
(Ref. Fig. 001)
(Ref. Fig. 002)
R (Ref. Fig. 003)

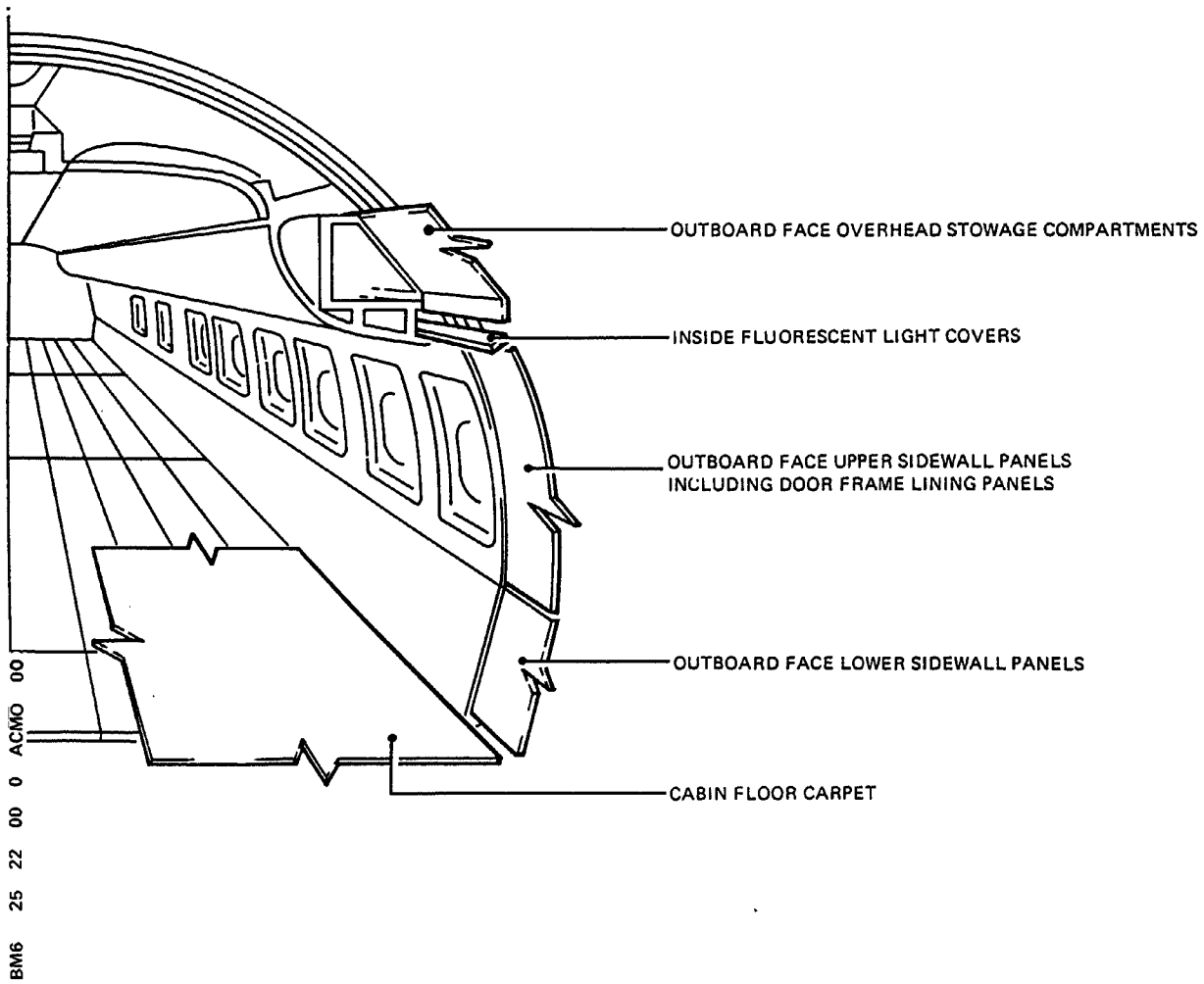
A. The insulation packages comprise a filling and a casing. The filling consists of one or more layers of mineral wool according to the thickness of the package. The casing is made of polyvinyl fluoride foil bonded together with woven fabric and resin. A resin-coated surface on the inner foil bonds the casing to the filling. The casing is sealed around the edges.
The insulation packages are fixed to frames and stringers by polyamide pins. In some instances, the packages are attached to the structure by means of Velcro tape.
They are vented by holes, provided in the inner surface. Threads are used behind the sidewall overhead stowage compartments, where a positive attach-
R ment is required. In the lower fuselage from STGR P50 to P'50 two layers of
R threads are installed. The insulation mats are located between inner and
R outer threads, so that bilge liquid can pass into the lower fuselage
R without sucking into the insulation material.

B. The secondary insulation is attached by means of double-backed tape and is bonded to each individual panel. To reduce the common sound pressure level in the passenger compartment the secondary insulation is installed behind the sidewall overhead stowage compartments.
As thermal insulation it additionally protects the passengers at the outboard side against permeated cold.

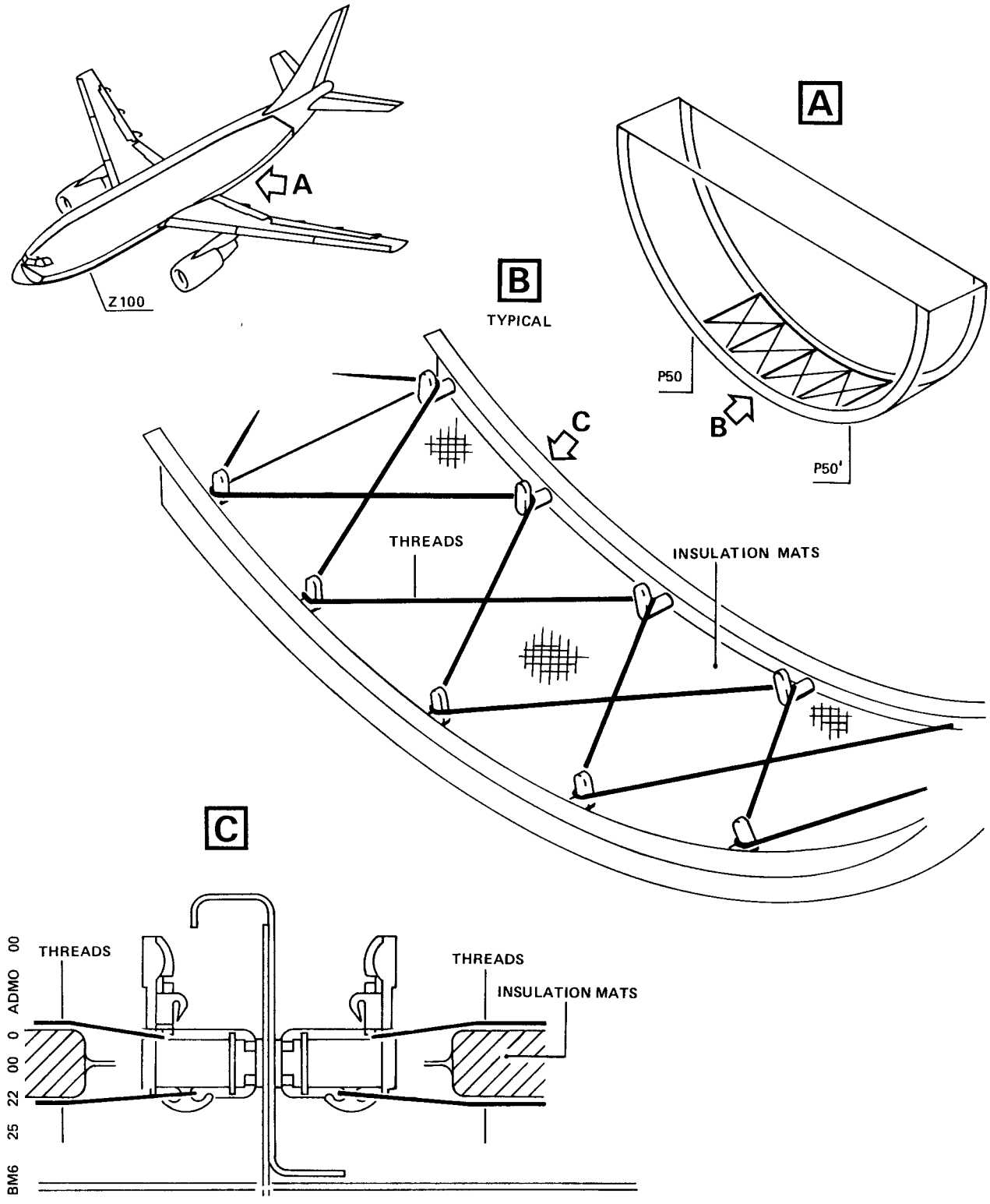



Primary Insulation
Figure 001





OUTBOARD FACE OVERHEAD STOWAGE COMPARTMENTS
INSIDE FLUORESCENT LIGHT COVERS
OUTBOARD FACE UPPER SIDEWALL PANELS
INCLUDING DOOR FRAME LINING PANELS
OUTBOARD FACE LOWER SIDEWALL PANELS
CABIN FLOOR CARPET
BM6 25 22 00 0 ACMO 00

Secondary Insulation
Figure 002




Insulation in Bilge Area
Figure 003

R

# HEAT AND SOUND INSULATION - INSPECTION/CHECK

## 1. Reason for the Job

A. Visual Inspection of Insulation Blanket.

B. Visual Inspection of Attachments.

## 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| | Access Platform, 2.7m (9 ft.)<br>Circuit Breaker Safety Clips and Tags<br>Warning Notice |
| Referenced Procedures | |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

## 3. Procedure

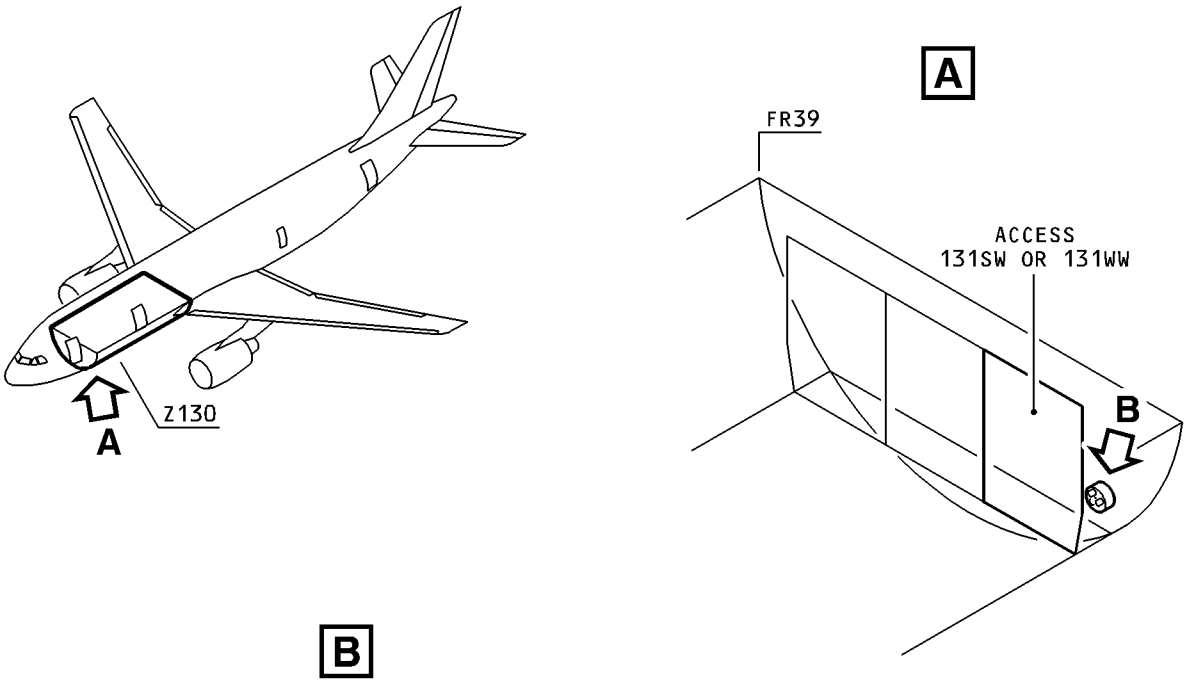
A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that the electronics racks ventilation is correct.
(4)Open the FWD cargo-compartment door (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock on the FWD cargo-compartment door actuator (Ref. 52-30-00, P. Block 301).
(6)Put the warning notice on the control panel of the cargo loading system to tell persons not to use the system.
(7)Open, tag and safety the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIK/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

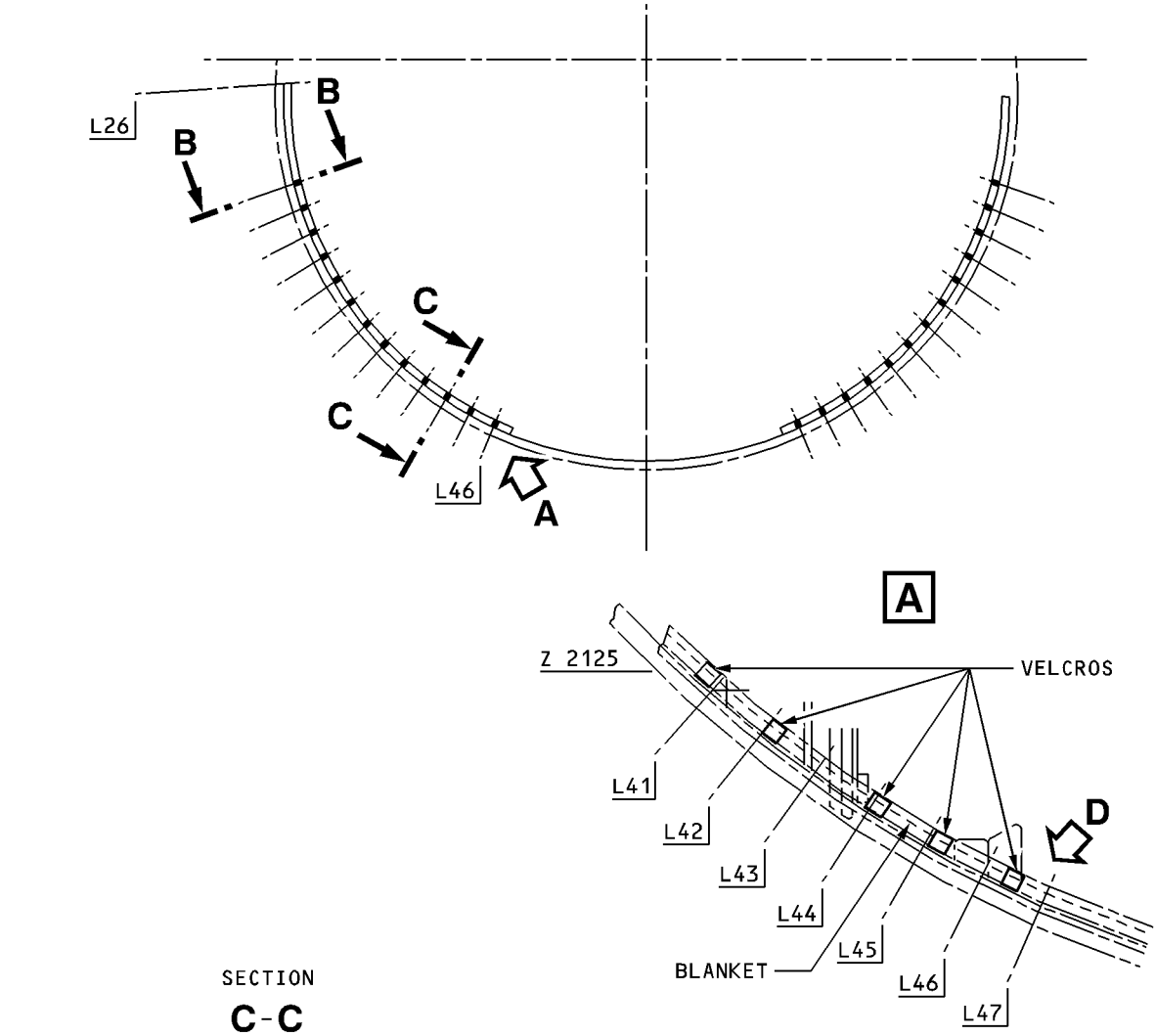
(8)In the the FWD cargo-compartment, open access door 131SW.
(Ref. Fig. 601)
(Ref. Fig. 602)

## 4. Inspection/Check

A. Examine each insulation blanket for rips and tears (Ref. Fig. 601)
(1)Check that the insulation blankets are not damaged or turned and not




Insulation Blankets
Figure 601

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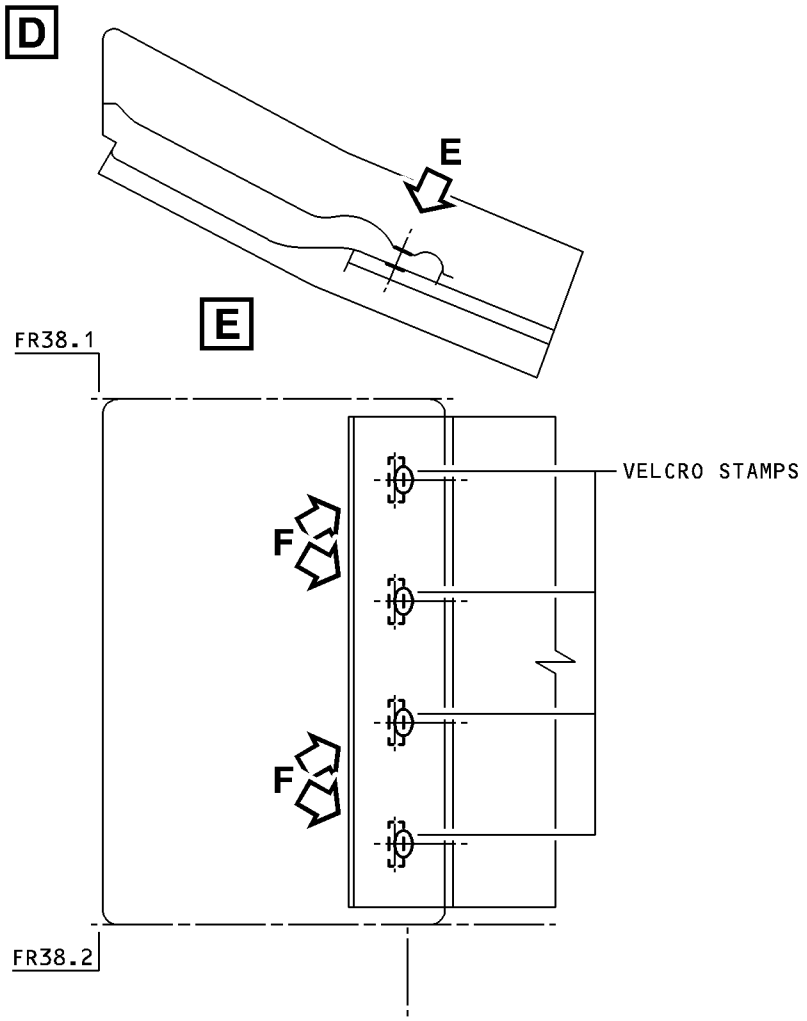
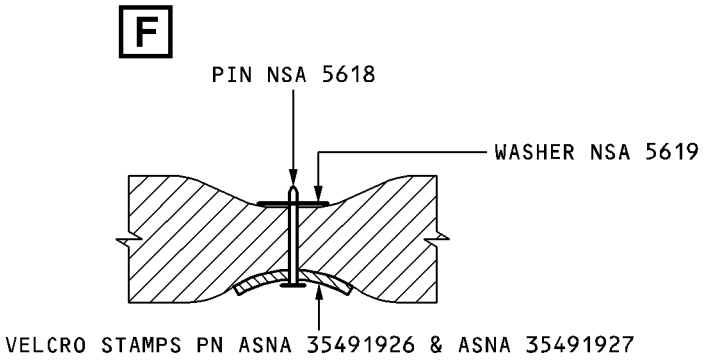
Insulation Attachments
(Sheet 1/2)
Figure 602

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Insulation Attachments
(Sheet 2/2)
Figure 602

soaked with any liquid.
(a)The acceptable size for a vertical tear is about 1.0 m (39.0 in.) and for a horizontal tear 0.25 m (9.75 in.) wide.
NOTE : Repair of insulation blankets is covered in 25-00-00, P. Block 801.
(b)For damage above limits, or in case of crossed tears in the area of the FWD Outflow Valve 202HM, the blanket must be removed.

B. Visually inspect attachments (Ref. Fig. 602)
(1)Check that the Velcro tape on attach fittings still adheres correctly.
(2)Check correct installation of all Vecro tape (at Frame 39 installed without pin and washer).
(3)Check correct installation of the Vecro stamps secured by pin and washer (Stringers 46 and 26).
(4)Make certain that insulation and panels are in proper condition, not broken and correctly attached.

C. Close-Up
(1)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.
(2)Close access door 131SW.
(3)Remove the safety clips and tags and close the circuit breakers 1MY, 6MY, 7GX and 23GX.
(4)Remove the door actuator safety lock (Ref. 52-30-00, P. Block 301).
(5)Close the FWD cargo-compartment door (Ref. 52-30-00, P. Block 1).
(6)De-energize the electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove the warning notice.
(8)Remove the access platform.

1. Reason for the Job

A. Removal for access to the fuselage structure (skin panels, frames, stringers etc.).

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. Material No. 05-016 | Thread (Ref. 20-31-00) |
| B. | Access Platform 2.0 m (6 ft. 7 in.) |

Referenced Procedures

| | |
|---|---|
| - 25-23-11, P. Block 401 | Ceiling Panels |
| - 25-23-11, P. Block 401 | Utility Area Ceiling Panels |
| - 25-23-31, P. Block 401 | Upper Sidewall Panels |
| - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 25-24-11, P. Block 401 | Sidewall Overhead Stowage Compartment |

3. Procedure

(Ref. Fig. 401)

A. Job Set-Up
(1)Remove the parts only where necessary to remove the insulation blankets.

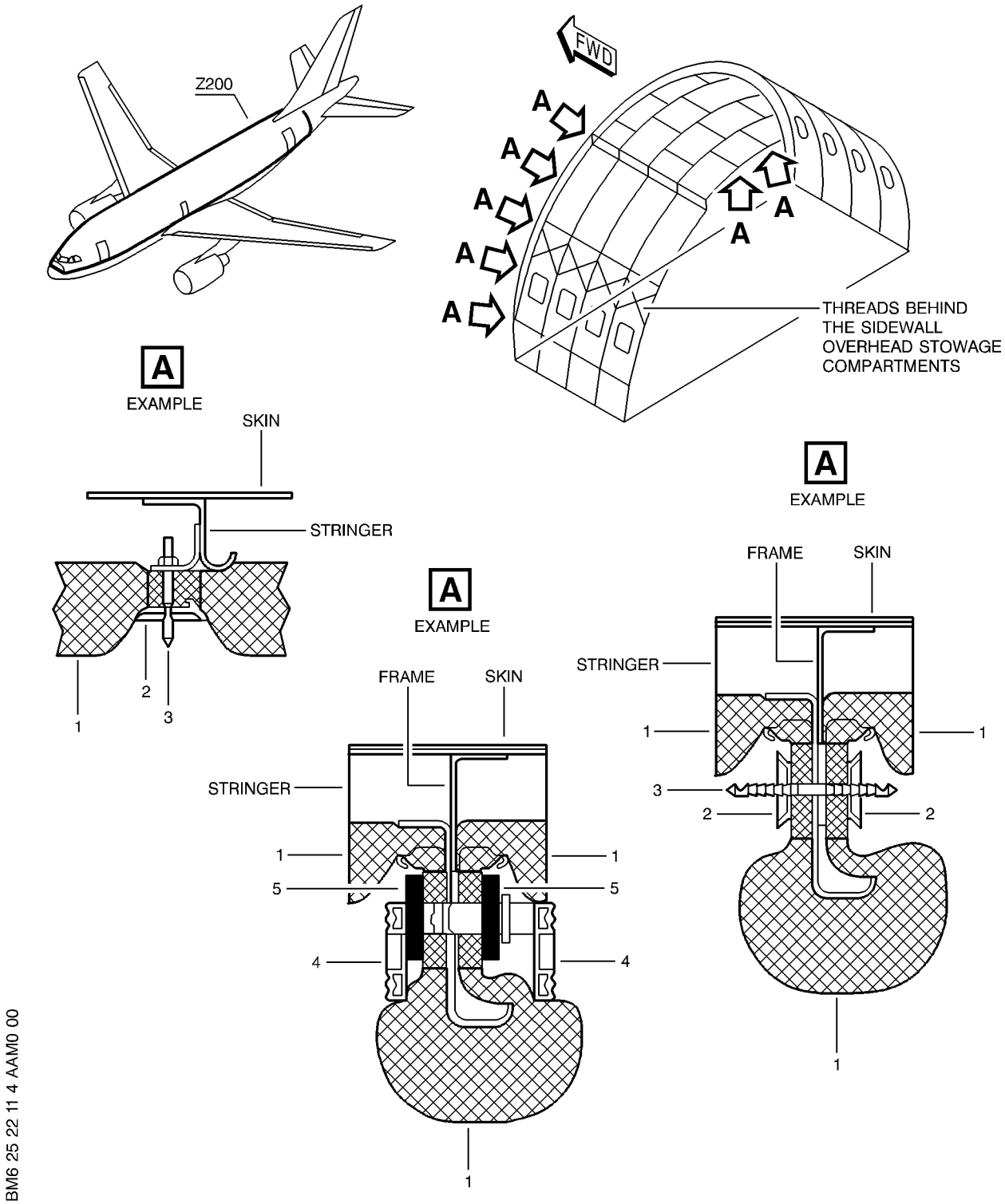
B. Removal
(1)Remove the thread if necessary behind the sidewall overhead stowage compartments.
(2)Remove the washers (2) from the studs (3).
(3)Remove the cable brackets (4) and rings (5).
(4)Remove the insulation blanket (1).

C. Preparation for Installation
(1)Check that the insulation blanket is clean, in good condition and correctly identified.

NOTE : The part number indicates the installation position.

D. Installation
(1)Put the insulation blanket (1) in installation position.
(2)Install the insulation blankets (1) so that they overlap and the condensed moisture flows towards the outer skin.
(3)Install the washer (2) on the studs (3).
(4)Install the cable brackets (4) and rings and tighten them.
(5)Install the threads where removed.

E. Close-up
(1)Install the parts which you removed to get access to the insulation blankets.




Heat and Sound Insulation
Figure 401

(2)Make sure that the work area is clean and clear of tools and other items.
(3)Remove the access platform(s).

# LININGS AND FURNISHINGS - DESCRIPTION AND OPERATION

## 1. General

The entire passenger compartment is lined with furnishing panels constructed of colored, flame-resistant synthetic material. The compartment linings are fitted to match the inner contour of the fuselage and cover the fuselage structure and the heat and sound insulation.
The individual panels are arranged in rows, thus forming a system of joint lines, and the joints are sealed by filler strips.

## 2. Component Location

### A. Ceiling Panels
(Ref. Fig. 001)

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Ceiling Panels Passenger Compartment | 200 | |
| 2 | Ceiling Panels FWD Utility Area | 200 | |
| 3 | Ceiling Panels AFT Utility Area | 200 | |

### B. Fluorescent Lighting Covers
(Ref. Fig. 002)

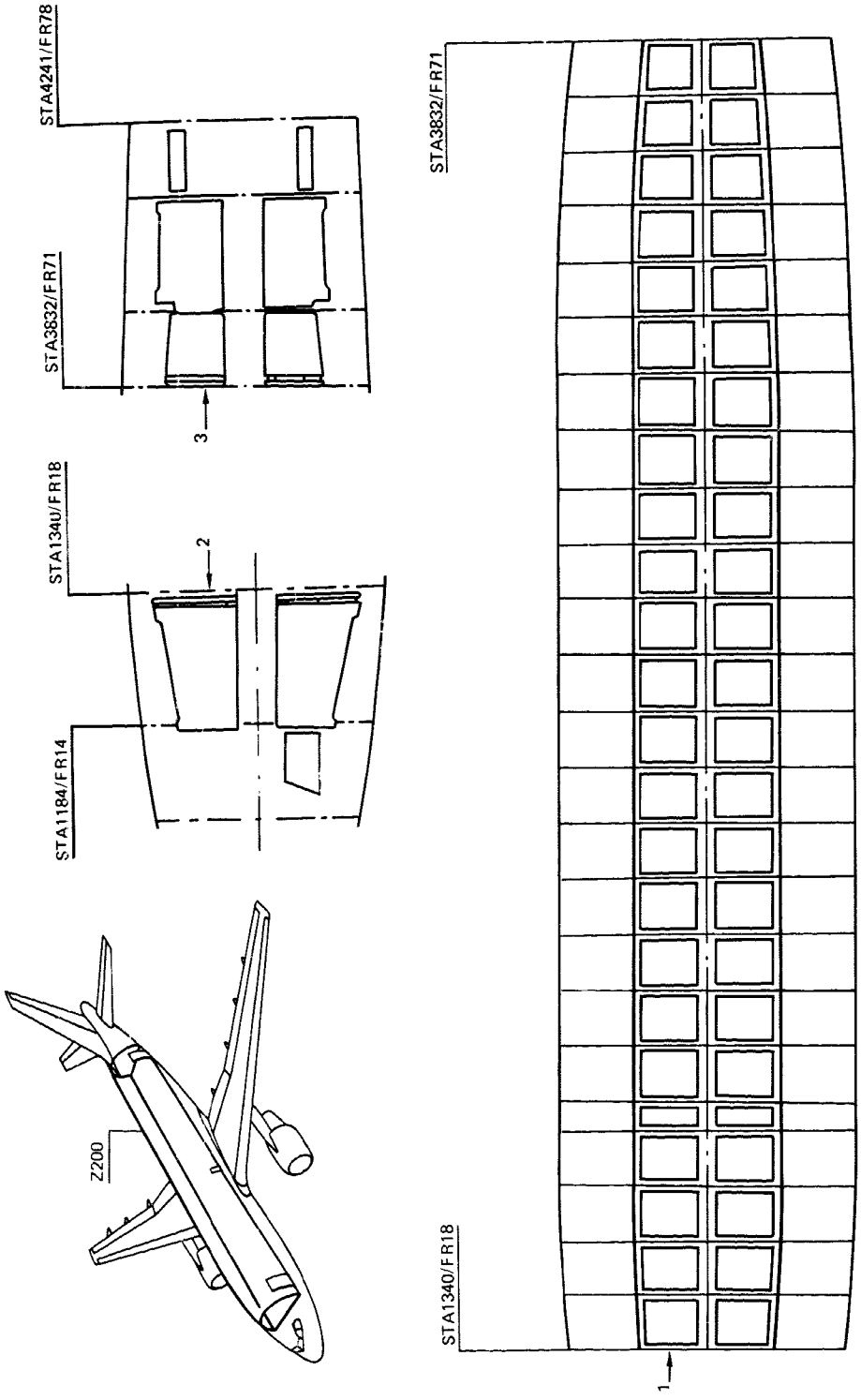
| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Fluorescent Lighting Cover | 200 | |

### C. Sidewall Panels
(Ref. Fig. 003)

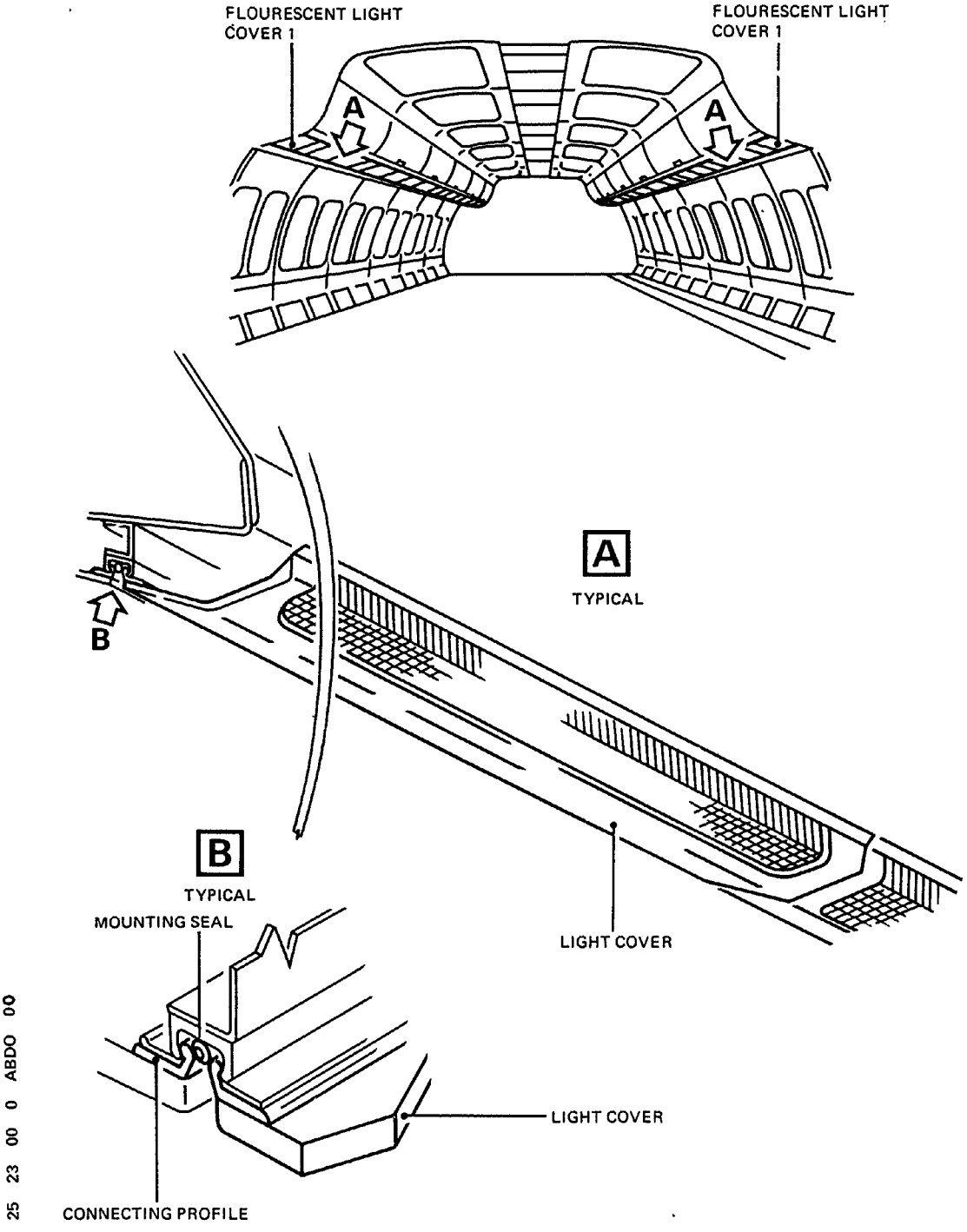
| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Sidewall Panels (upper) | 200 | |
| 2 | Sidewall Panels (lower) | 200 | |
| 3 | Decompression Panels | 200 | |

### D. Door Frame Lining
(Ref. Fig. 004)

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Door Frame Lining FWD Passenger/ Crew Doors FR13A to FR18 | 221/222 | 841/831 |
| 2 | Door Frame Lining Emergency Exit Doors FR42 to FR44 | 241/242 | 844/834 |
| 3 | Door Frame Lining AFT Passenger/ Crew Doors FR73 to FR76 | 261/262 | 843/833 |




Ceiling Panels
Figure 001

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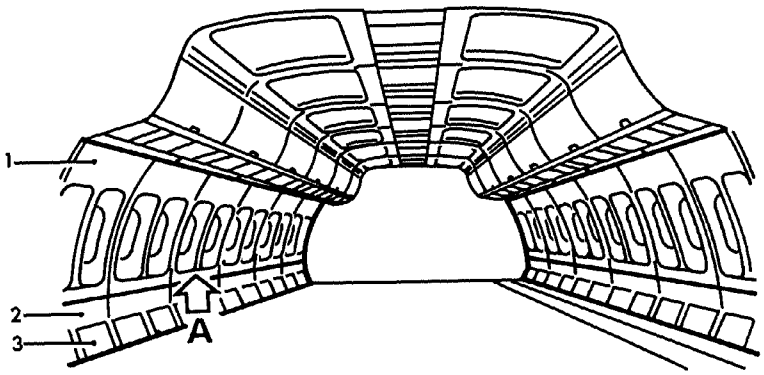
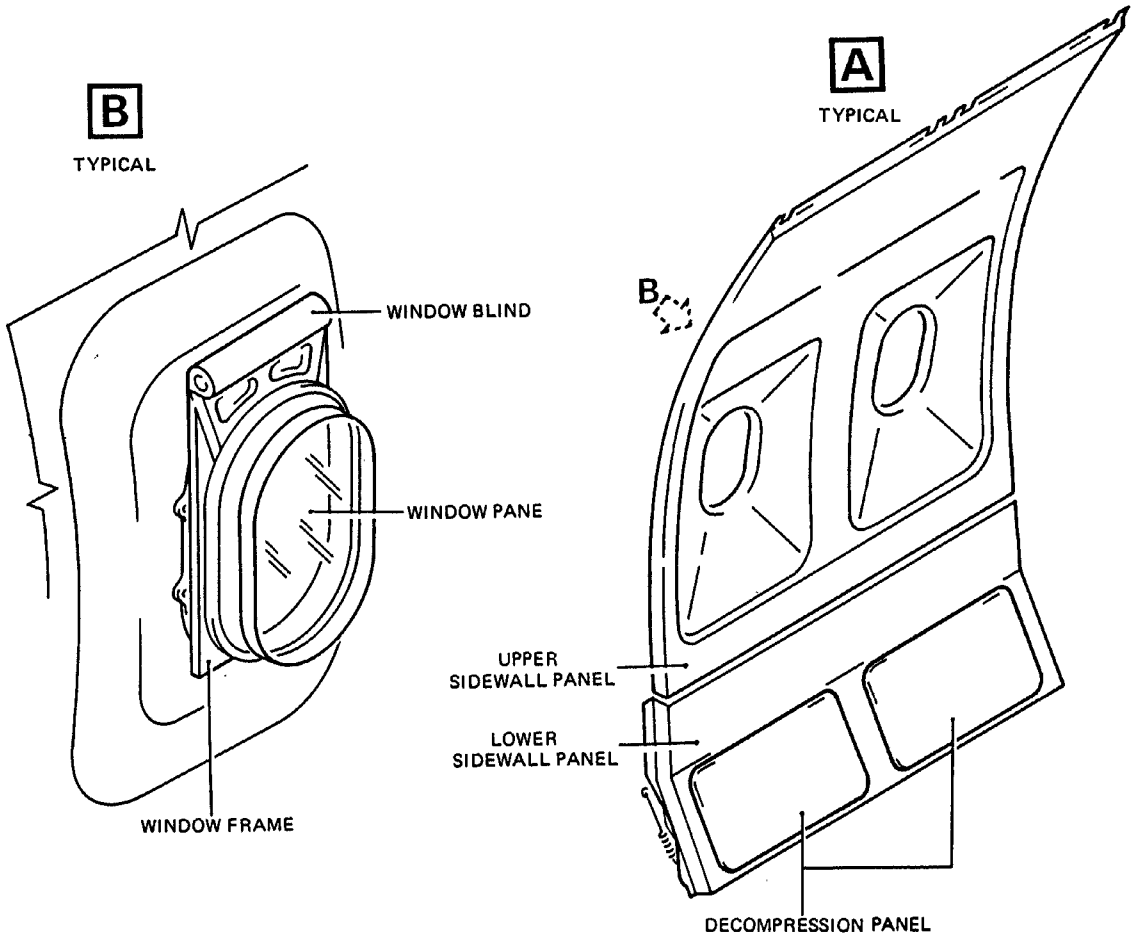
Fluorescent Lighting Covers
Figure 002

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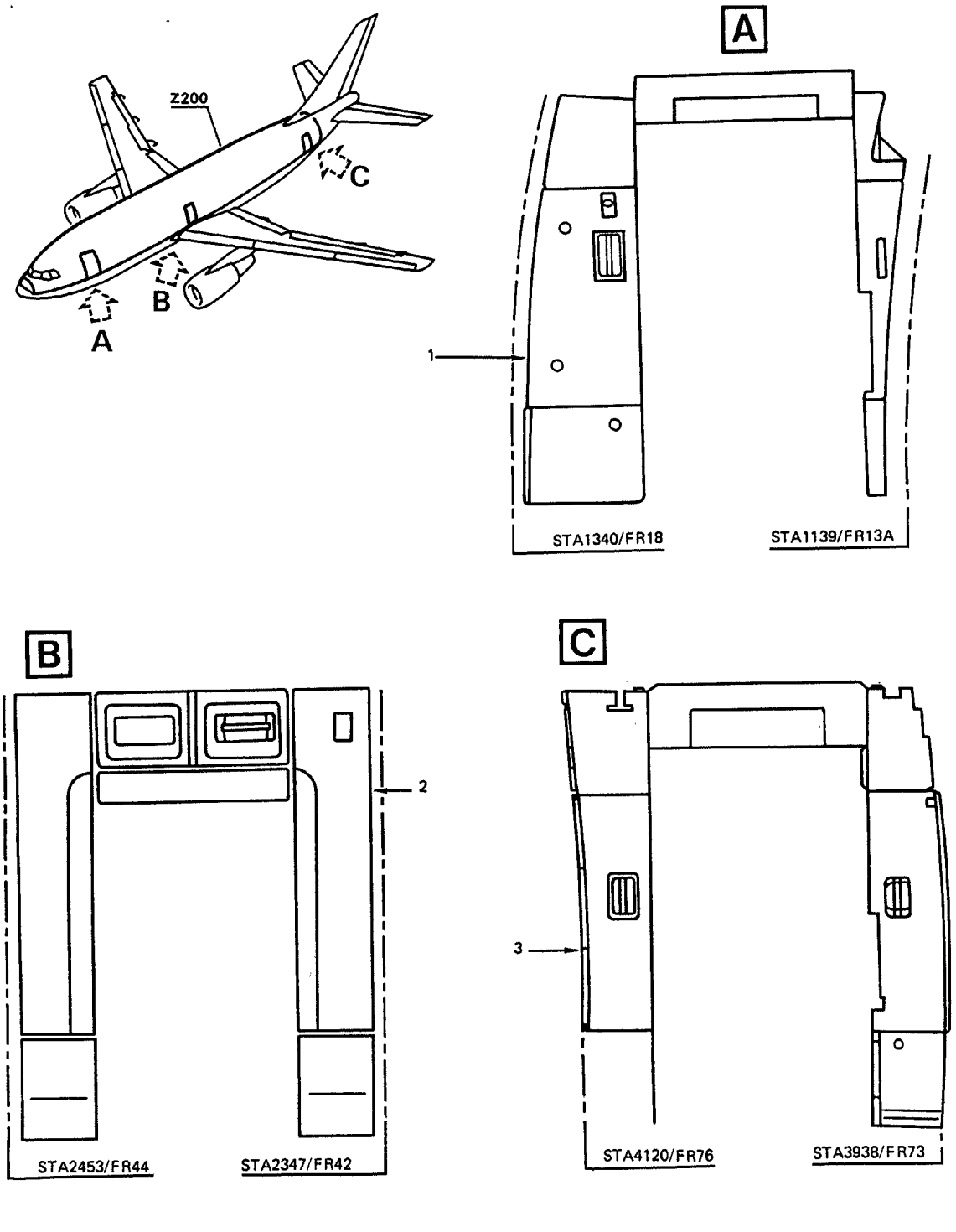
Sidewall Panels
Figure 003

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Door Frame Lining
Figure 004

3. Description

A. Ceiling Panels (Ref. Fig. 001)
The ceiling panels are constructed of synthetic honeycomb material and cover the upper fuselage structure for the entire length of the passenger compartment.
In the passenger seating areas, curved panels are fitted between the center ceiling carrier beams and the sidewall overhead stowage compartments. Air conditioning outlets located above the sidewall overhead stowage compartments are covered by the ceiling panels. Grills are fitted in the ceiling panels to allow air flow.
In the utility areas, flat panels are fitted between the ceiling carrier beam and the fuselage structure.
Core filler is used to fill in edges, holes and recesses of the honeycomb components. Attachment is by quick-release fasteners, bolts, securing rails and spigot brackets.

B. Fluorescent Lighting Covers (Ref. Fig. 002)
Fluorescent lighting covers are positioned under the LH and RH overhead stowage compartments.
The RH and LH light covers enclose the space between the upper sidewall panels and the sidewall overhead stowage compartments. The covers are secured with clamps and a mounting seal.

C. Sidewall Panels (Ref. Fig. 003)
The upper sidewall panels are provided with moulded window recesses. An inner window pane and a sun visor are fitted to the window recesses. Insulating mats are fitted on the rear faces. The joints between the panels are sealed by filler strips. The panels are secured with fixing spigots and bolts.
The lower sidewall panels are provided with decompression panels (Ref. 25-66-00, P. Block 001). Insulation mats are fitted to the rear of the lower sidewall panels. The lower panels are secured with spigots and quick-release fasteners.
An attendant station and two stowage compartments between the AFT passenger/crew doors and the aft lavatories are fitted to both RH and LH sides.

D. Door Frame Linings (Ref. Fig. 004)
The door frame lining panels are made of synthetic material with insulating material bonded to the rear face. The panels are secured with quick-release fasteners to brackets on the frames in the door areas.
Strips of rubber are bonded to the edges of the individual panels to provide a seal. A maintenance access cover is incorporated in the upper door frame panel of FWD and AFT passenger/crew doors.
An attendant station at FR42 is fitted to the upper forward door frame lining panel to both RH and LH sides.

CAUTION : CEILING PANEL PLUGS (7) MUST BE ENGAGED WITH QUICK-RELEASE LOCKS (1) BEFORE CEILING PANEL IS PRESSED INTO POSITION.

1. Reasons for the Job

A. Access to insulation, equipment, or structural components concealed by the ceiling paneling

B. Repair of ceiling panels

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. 98A25207503000 | Pulley Assembly - Sealing Cord |
| R C. 98A25207618000 | Platform - Work, Ceiling Panels |
| R | (Business and Tourist Class) |
| R D. 98A25207621000 | Platform - Work, Ceiling Panels |
| R | (9-Abreast Seats and First Class) |

Referenced Procedures

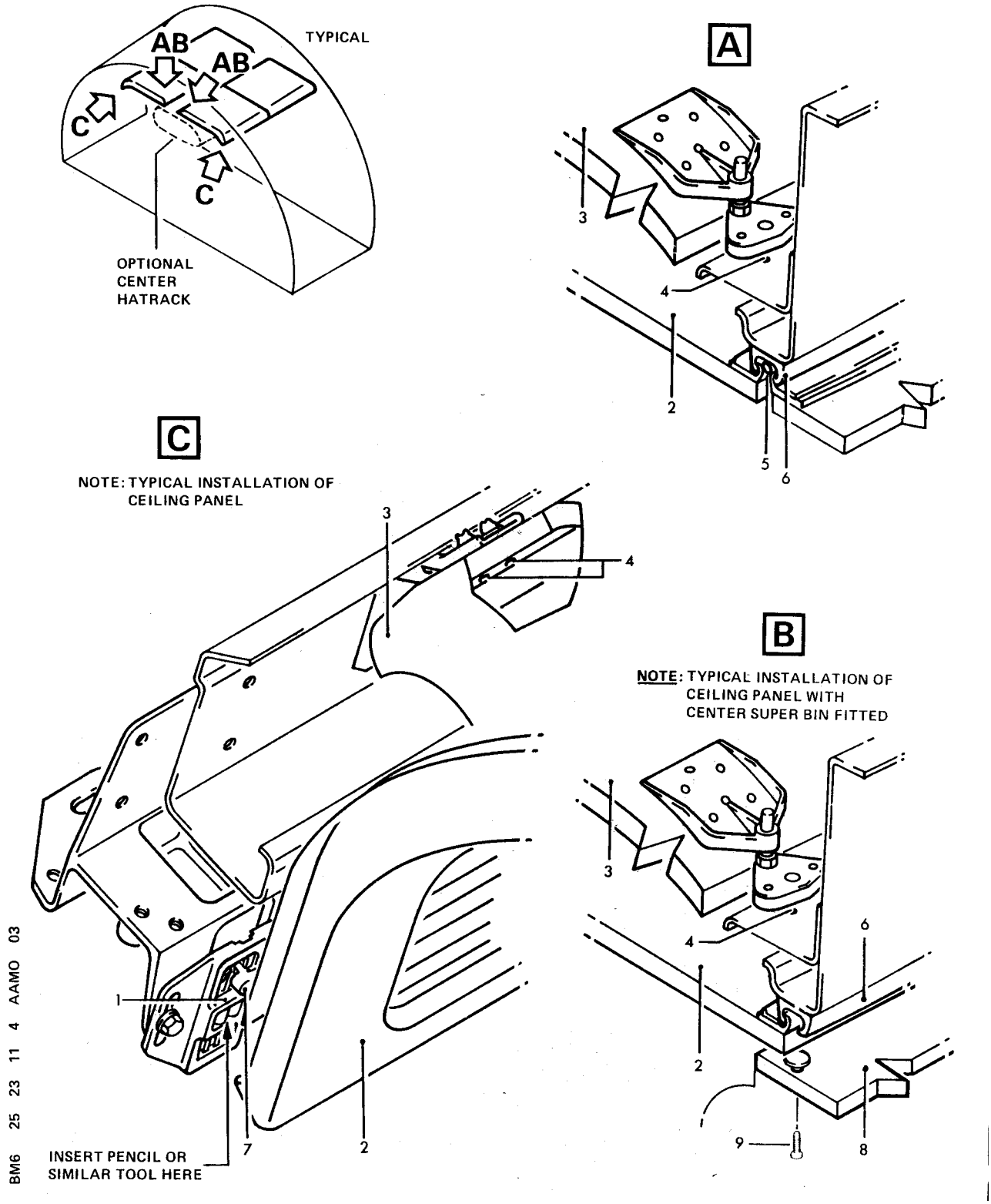
| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 33-21-00, P. Block 501 | General Illumination |
| - 33-26-00, P. Block 501 | Passenger Lighted Signs |
| - 33-51-00, P. Block 501 | Passenger Compartment Emergency Lighting |
| - 33-51-12, P. Block 401 | Ceiling and Wall Exit Sign |

3. Procedure
(Ref. Fig. 401)

A. Job Set-Up
(1)Make certain that ON-ARM-DISARM switch (22WL) on panel 436VU is in DISARM position.
(2)Make certain that EMERG pushbutton switch (28WL) on panel 818VU is in OFF position.
(3)Open safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | EMERG LIGHTING/EXIT LT | 20WL | 205/E27 |
| 22VU | EMERG LIGHTING/EXIT LT | 21WL | 205/E28 |
| 132VU | LIGHTING-EMER LT-EXIT LT CHARGER | 24WL | L75 |
| 800VU | CABIN LIGHT CONTROL CABIN | 119LG | A12 |
| 800VU | CABIN LIGHT CONTROL CABIN | 124LG | A13 |

(4)Remove partitions adjacent to ceiling panels to be removed (Ref. 25-26-00, P. Block 1).




Ceiling Panels
Figure 401

R

(5)Position platform P/N 98A25207618000 or 98A25207621000.
(6)Remove ceiling exit sign (Ref. 33-51-12, P. Block 401) if neccessary.

B. Removal
(1)Remove ceiling panels.
(a)Remove mounting seal (5) from service rail (6).
(b)Insert pencil or similar device into quick-release lock (1).
(c)Pull lower ceiling panel (2) free from Velcro tape and remove from service rail (6).
(d)Remove fluorescent lamps.
(e)Disengage quick-release fasteners (4) in upper ceiling panel (3).
(f)Disconnect electrical connector.
(g)Slide upper ceiling panel (3) inboard and remove downwards.
NOTE : Installation position must be recorded.
(2)Remove ceiling panels if center super bins are installed.
(a)Disengage quick-release fasteners (9) in super bin panel (8).
(b)Insert pencil or similar device into quick-release lock (1).
(c)Pull lower ceiling panel (2) free from Velcro tape and remove from service rail (6).
(d)Remove flourescent lamps.
(e)Disengage quick-release fasteners (4) in upper ceiling panel (3).
(f)Disconnect electrical connector.
(g)Slide upper ceiling panel (3) inboard and remove downwards.
NOTE : Installation position must be recorded.

C. Preparation of Replacement Components
(1)Check all service rails and retaining strips for damage.
(2)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(3)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Install ceiling panels.
(a)Position upper ceiling panel (3).
(b)Engage quick-release fasteners (4) in upper ceiling panel (3) in region of ceiling support and upper light.
(c)Connect electrical connector.
(d)Set up upper ceiling panel (3) on the adjustable attach points.
NOTE : Adjust panels at attach points if necessary, to ensure that gaps between adjacent ceiling panels are uniform.
(e)Install fluorescent lamps.
CAUTION : PLUGS (7) MUST BE ENGAGED WITH QUICK-RELEASE LOCKS (1) BEFORE CEILING PANEL IS PRESSED INTO POSITION.
R (f)Insert pencil or similar device into quick-release lock (1), prior to
R positioning lower panel, so that plugs (7) engage with quick-release locks (1).
(g)Raise lower ceiling panel (2) and press to Velcro tape. Make certain that panel is fastened to service rail (6).
NOTE : If adjustment is necessary, remove ceiling panel and adjust plug (7). Do not adjust quick-release lock (1). Adjust adjacent ceiling panels, if necessary.

(h)Position mounting seals (5) in service rail (6).
(j)Roll in mounting seals by moving pulley assy P/N 98A25207503000 backwards and forwards.
NOTE : Rolling in mounting seals in one direction, only causes them to contract. In this case panels are not fixed correctly. Make certain that abutments of mounting seals do not align with joints between panels.
(k)Install ceiling exit sign (Ref. 33-51-12, P. Block 401) if removed.
(2)Install ceiling panels if center super bins are installed.
(a)Position upper ceiling (3).
(b)Engage quick-release fasteners (4) in upper ceiling panel (3) in region of ceiling support and upper light.
(c)Connect electrical connector.
(d)Set up upper ceiling panel (3) on the adjustable attach points.
NOTE : Adjust panels at attach points if necessary, to ensure that gaps between adjacent ceiling panels are uniform.
(e)Install flourescent lamps.
CAUTION : PLUGS (7) MUST BE ENGAGED WITH QUICK-RELEASE LOCKS (1) BEFORE CEILING PANEL IS PRESSED INTO POSITION.
R (f)Insert pencil or similar device into quick-release lock (1), prior to
R positioning lower panel, so that plugs (7) engage with quick-release locks (1).
(g)Raise lower ceiling panel (2) and press to Velcro tape. Make certain that panel is fastened to service rail (6).
NOTE : If adjustment is necessary, remove ceiling panel and adjust quick-release lock (1). Adjust adjacent ceiling panels, if necessary.
(h)Engage quick-release fasteners (9) in super bin (8).
(j)Install ceiling exit sign (Ref. 33-51-12, P. Block 401).

E. Test
(1)Carry out operational test on the following:
(a)General illumination (Ref. 33-21-00, P. Block 501).
(b)Passenger compartment emergency lighting (Ref. 33-51-00, P. Block 501).
(c)Passenger lighted signs (Ref. 33-26-00, P. Block 501).

F. Close-Up
(1)Remove platforms.
(2)Install partitions (Ref. 25-26-00, P. Block 1).
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

1. Reasons for the Job

A. Access to insulation, equipment, or structural components concealed by ceiling paneling

B. Repair of ceiling panels

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. 98A25207503000 | Pulley Assembly - Sealing Cord |

Referenced Procedures

| | | |
|---|---|---|
| R | - 11-00-00, P. Block 1 | Placards and Markings - General |
| | - 33-21-00, P. Block 501 | General Illumination |
| | - 33-23-00, P. Block 501 | Call System |
| | - 33-27-00, P. Block 501 | Cabin Attendant Work Lights |
| | - 33-51-00, P. Block 501 | Passenger Compartment Emergency Lighting |
| | - 35-21-00, P. Block 501 | Passenger Oxygen System |

3. Procedure

A. Job Set-Up

(1)Make certain that ON-ARM-DISARM switch (22WL) on panel 436VU and EMERG pushbutton switch (28WL) on panel 818VU are in the DISARM and OFF position respectively.

(2)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 21VU | CALLS CABIN | 1RM | 101/J 7 |
| 22VU | PASSENGER OXYGEN/CTL & WARN | 1WR | 202/H24 |
| 22VU | EMER LIGHTING/EXIT LT | 20WL | 205/E27 |
| 22VU | EMER LIGHTING/EXIT LT | 21WL | 205/E28 |
| 132VU | EMER EXIT LT CHARGE | 24WL | 903/L75 |
| 800VU | ATTN LIGHT | 1LZ | C13 |
| 800VU | LIGHT CONTROL ENTRY | 21LG | B16 |
| 800VU | LIGHT CONTROL CABIN | 119LG | B18 |
| 800VU | LIGHT CONTROL CABIN | 124LG | B19 |
| 811VU | LIGHT ATTN | 20LZ | B10 |

B. Removal

**ON A/C 001-100,

(1)Remove FWD utility area ceiling panels.
(Ref. Fig. 401)
R (a)Remove section hose (1) from securing rail (2).
(b)Remove caps (3), release quick release fasteners (4) and remove panels (5, 6, 7).
(c)Remove screws (8), washers (9) and panels (10).
(d)Remove bolt (11), washer (12) and locating washers (13).
(e)Support panel (14) and remove screws (15, 17) and washers (16, 18).
(f)Loosen screws (19) and disconnect electrical connectors above panel (14).
(g)Remove screws (19), washers (20) and panel (14).
(h)Fit protective caps to disconnected electrical connectors.

**ON A/C ALL

(2)Remove AFT utility area ceiling panels.

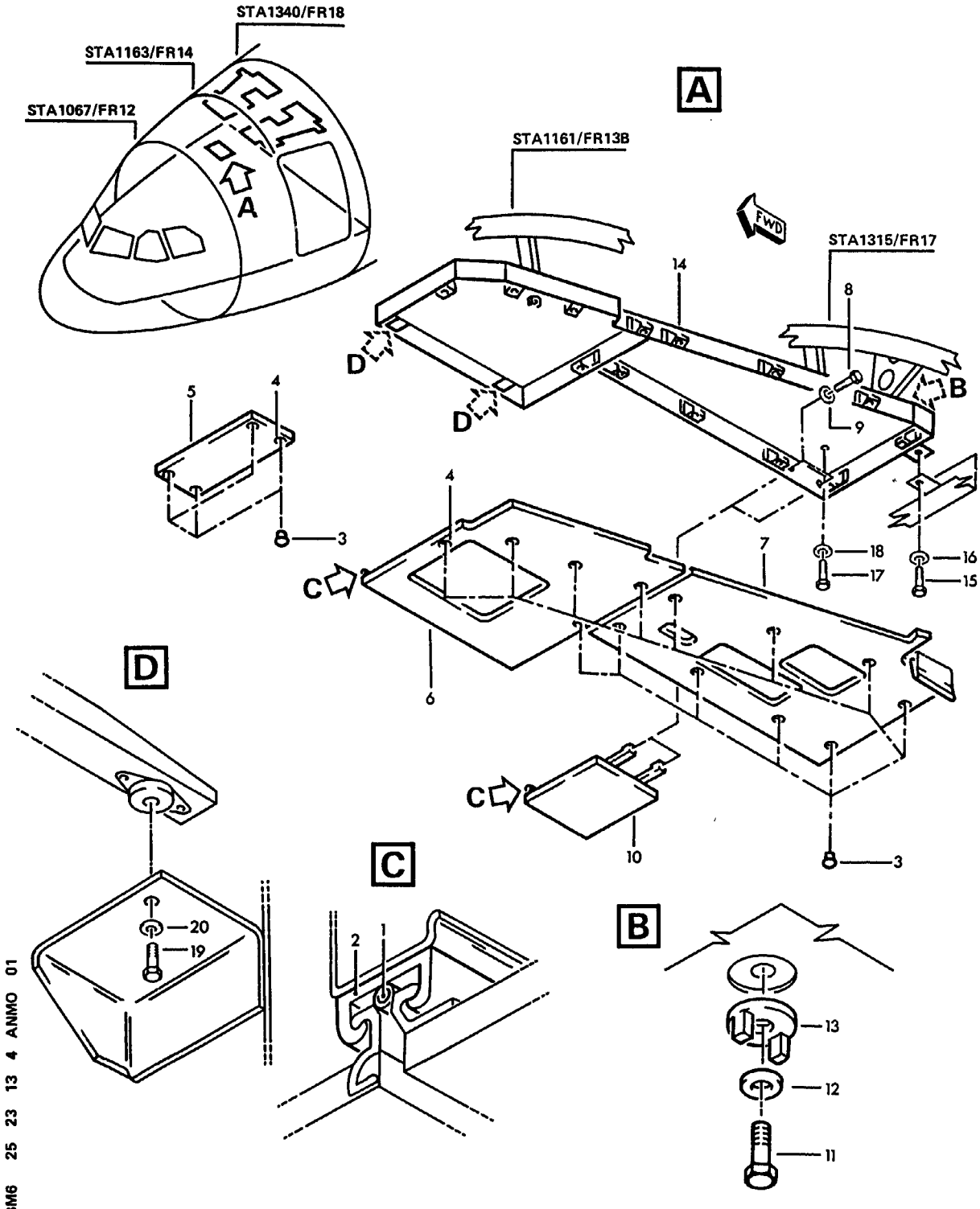
**ON A/C 001-100,

(Ref. Fig. 402)
R (a)Remove section hose (1) from securing rail (2).
(b)Remove caps (3), release quick release fasteners (4) and remove panels (5, 6, 7, 8).
(c)Remove screws (9) and washers (10).
(d)Remove ceiling panels (11) by pulling bracket (12) from securing rail (2).
(e)Remove air vent panel (13) by inserting pencil or similar device into quick-release lock (14).
(f)Disconnect electrical connector above panel (15).
(g)Remove screws (16), washers (17) and panel (15).
(h)Disconnect electrical connectors above panel (18).
(j)Remove bolts (19), washers (20) and locating washers (21).
(k)Remove screws (22), washers (23) and panel (18).
(l)Disconnect electrical connectors above panel (24).
(m)Remove bolts (25) and washers (26), if installed.
(n)Remove screws (27), washers (28) and panel (24).
(p)Fit protective caps to disconnected electrical connectors.

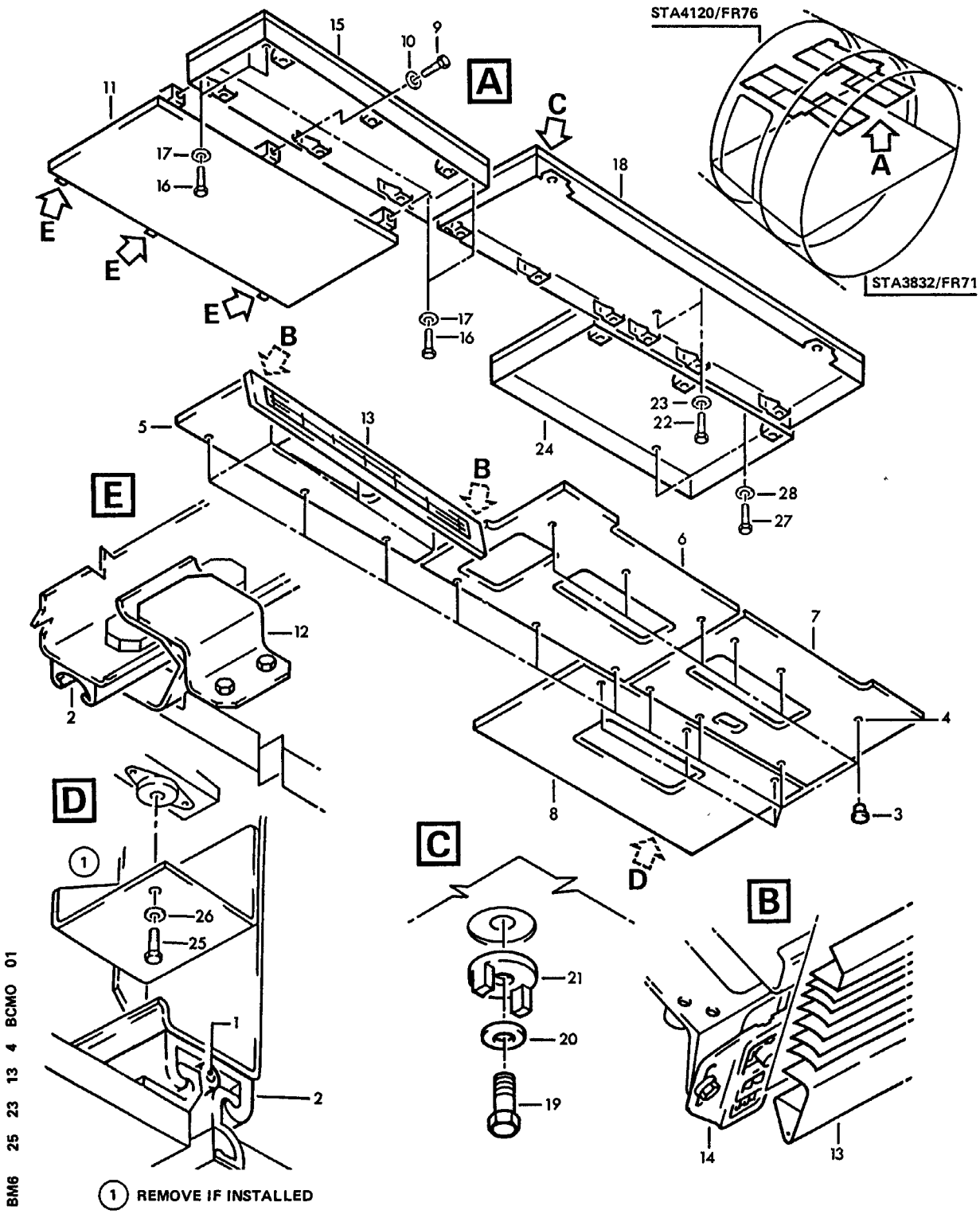
**ON A/C ALL

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation




Fwd Utility Area Ceiling Panels
Figure 401




Aft Utility Area Ceiling Panels
Figure 402

**ON A/C 001-100,

(1)Install FWD utility area ceiling panels (Ref. Fig. 401).
(a)Remove protective caps from disconnected electrical connectors.
(b)Position and support panel (14), connect electrical connectors above panel.
(c)Install locating washers (13), washer (12) and bolt (11).
NOTE : Make certain that locating washers are correctly seated in panel.
(d)Install washers (16, 18) and screws (15, 17).
(e)Install washers (20) and screws (19).
(f)Install panels (10), washers (9) and screws (8).
(g)Position panels (7, 6, 5), fasten quick-release fasteners and insert caps.
R (h)Insert section hose (1) in securing rail (2) using pulley assembly.

**ON A/C ALL

(2)Install AFT utility area ceiling panels.

**ON A/C 001-100,

(Ref. Fig. 402)
(a)Remove protective caps from disconnected electrical connectors.
(b)Position panel (24) and connect electrical connectors.
(c)Install washers (28) and screws (27).
(d)Install washers (26) and bolts (25), if removed.
(e)Position panel (18) and connect electrical connectors.
(f)Install locating washers (21), washers (20) and bolts (19).
NOTE : Make certain that locating washers are correctly seated in panel.
(g)Install washers (23) and screws (22).
(h)Position panel (15) and connect electrical connectors.
(j)Install washers (17) and screws (16).
(k)Position air vent panel (13) and engage quick-release fasteners (14).
(l)Install panels (11), install washers (10) and screws (9).
(m)Position panels (8, 7, 6, 5), engage quick-release fasteners (4) and insert caps (3).
R (n)Install section hose (1) in securing rail (2) using pulley assembly.

**ON A/C ALL

E. Test
(1)Carry out operational test on the following:
(a)General illumination (Ref. 33-21-00, P. Block 501).
(b)Passenger compartment emergency lighting (Ref. 33-51-00, P. Block 501).
(c)Call System (Ref. 33-23-00, P. Block 501).
(d)Passenger oxygen system (Ref. 35-21-00, P. Block 501).

(e)Cabin attendant work light (Ref. 33-27-00, P. Block 501).

F. Close-Up

(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# UPPER SIDEWALL PANELS - REMOVAL/INSTALLATION

1. Reasons for the Job

A. To gain access to insulation and structure.

B. Repairs to inner window pane and sun visor.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. Material No. 07-012 | Lacquers (Ref. 20-31-00) |
| R B. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

**ON A/C 101-200,

3. Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 11-32-25, P. Block 1 | Equipment/Furnishings - Interior Placards and Markings |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-27-00, P. Block 1 | Ancillary Equipment |

**ON A/C 001-100,

3. Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 11-32-25, P. Block 1 | Equipment/Furnishings - Interior Placards and Markings |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-21-51, P. Block 401 | Cabin Attendant Swivel-Seat |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-27-00, P. Block 1 | Ancillary Equipment |
| - 35-21-00, P. Block 501 | Passenger Oxygen System |
| - 33-27-11, P. Block 501 | Cabin Attendant Reading Light |

**ON A/C ALL

4. Procedure

A. Job Set-Up
(1)Remove passenger seats in area of sidewall panels to be removed (Ref. 25-21-00, P. Block 401).
(2)Remove ancillary equipment as required (Ref. 25-27-00, P. Block 1).
(3)Remove fluorescent lighting covers in area of sidewall panels to be removed (Ref. 25-23-63, P. Block 401).

**ON A/C 001-100,

(4)Remove cabin attendant swivel seats (Ref. 25-21-51, P. Block 401).
(5)Open, safety and tag the following circuit breakers:
NOTE : Only necessary when removing panel at STA4241(FR78).

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | PASSENGER OXYGEN/CTL & WARN | 1WR | 202/H19 |
| 811VU | LIGHT/ATTN | 20LZ | |

**ON A/C ALL

B. Removal
(1)Remove sidewall panels STA1340(FR18) to STA3938(FR73) (Ref. Fig. 401).
NOTE : Location of each panel should be identified when removing more than one panel.
(a)Remove strips (1).
NOTE : Insert screwdriver or similar tool under strips and lift until free.
(b)Remove screws (2) and retainers (3).
(c)Lift sidewall panel until spigots (4) are free and remove sidewall panel (5).

**ON A/C 001-100,

(2)Remove sidewall panels STA4120(FR76) to STA4302(FR79) (Ref. Fig. 402).
(a)Remove strip (1) from between panels.
NOTE : Insert screwdriver or similar tool under strips and lift until free.
(b)Remove screws (2) and washers (3).
(c)Lift panel (4) until spigots (5) are free and remove panel (4).
(d)Lift panel (6) until spigots (5) are free, then lower and disconnect electrical connector from oxygen mask container.
(e)Not applicable.
(f)Remove panel (6).
(g)Remove screws (7) and washers (8).
(h)Lift panel (9) until spigots (10) are free and remove panel (9).
(j)Remove cap (11) and screw (12).
(k)Disconnect electrical connectors from reading light.
(l)Lift panel (13) until spigots (10) are free and remove panel (13).

**ON A/C 101-200,

(2)Not applicable

**ON A/C 001-004,

(3)Remove window fairing behind sidewall panel, if necessary
R (Ref. Fig. 403).

R (a)Remove sealing ring (15) from window fairing (3) if installed.
(b)Remove screws (1), washers (2) and push fairing (3) up to release hooks (14) from sidewall panel.
(c)Unsnap clips (4), remove covers (5) and rolls (6).
(d)Unsnap clips (7, 8) and remove interior window (9).
(e)Remove outer fairing (10) by pushing sideways.
(f)Spread slit of inner fairing (11) and pull roll shade (12) out of fairing.
R (4)Replacement of window sealing (17) behind sidewall panel, if necessary
R (Ref. Fig. 403).
R (a)Remove window sealing (17) by pulling from window retainer (16).

**ON A/C ALL

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

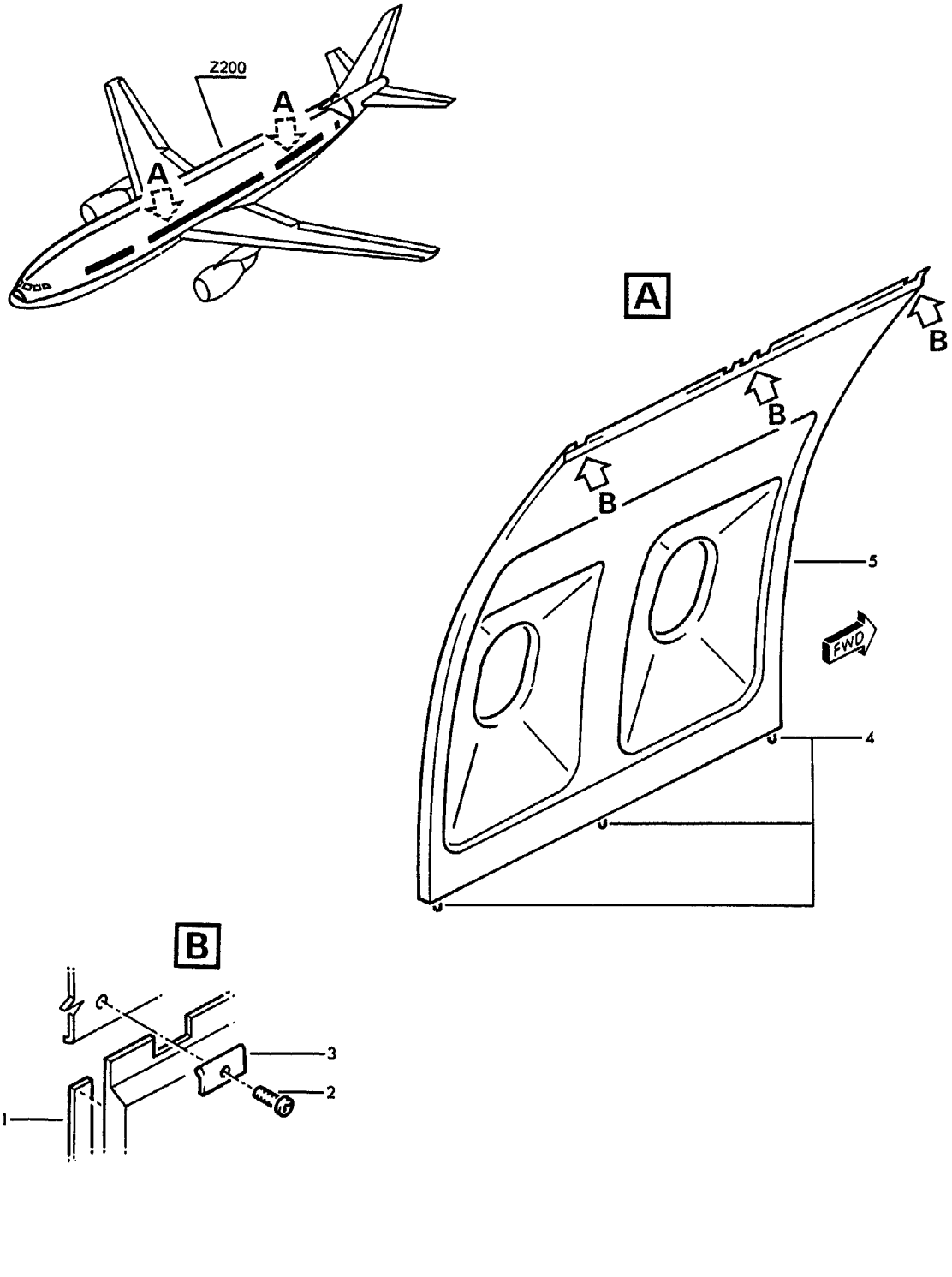
**ON A/C 001-004,

D. Installation
R (1)Install new window sealing (17) behind sidewall panel (if removed)
R (Ref. Fig. 403).

R WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

R (a)Clean window retainer (16) using cleaning agent (Mat. No. 11-003).
R (b)Remove protective strips from bonding tape and b... window
R sealing (17) to the window retainer (16).
R (2)Install window fairing behind sidewall panel (if removed).
(a)Spread slit of inner fairing (11) to slide roll shade (12) into fairing.
(b)Position outer fairing (10) and interior window (9) at inner fairing (11) and push clips (7, 8) together.
NOTE: Make certain that hooks (13) are seated correctly.
(c)Position rolls (6) and covers (5) at fairing and push clips (4) together.
NOTE: Make certain that gaps of covers are seated correctly.
(d)Position fairing (3) at sidewall panel and install screws (1) and washers (2).
NOTE: Make certain that hooks (14) are seated correctly at sidewall panel.
R (e)Install sealing ring (15) to the window fairing (3) (if removed).

**ON A/C 005-200,

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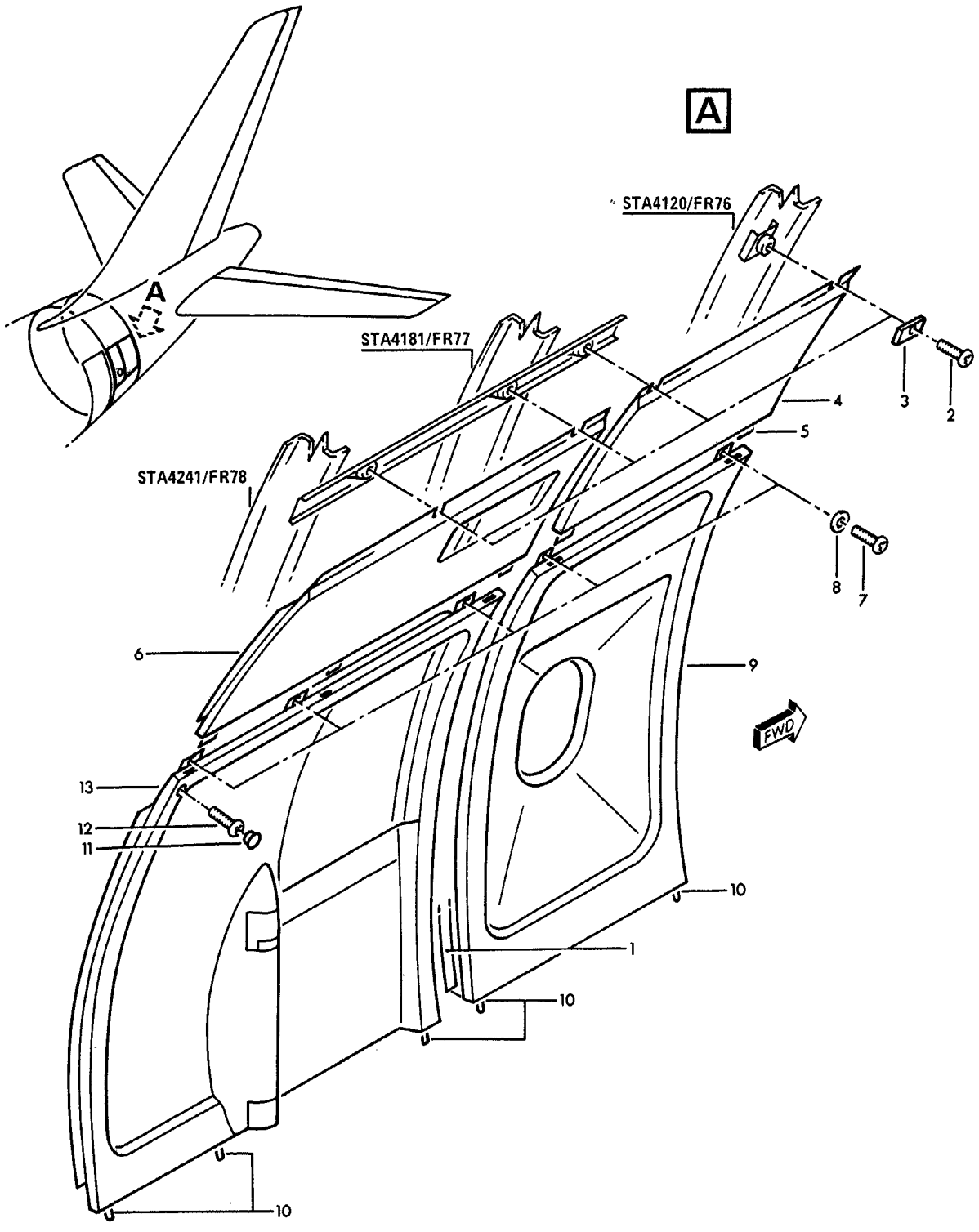
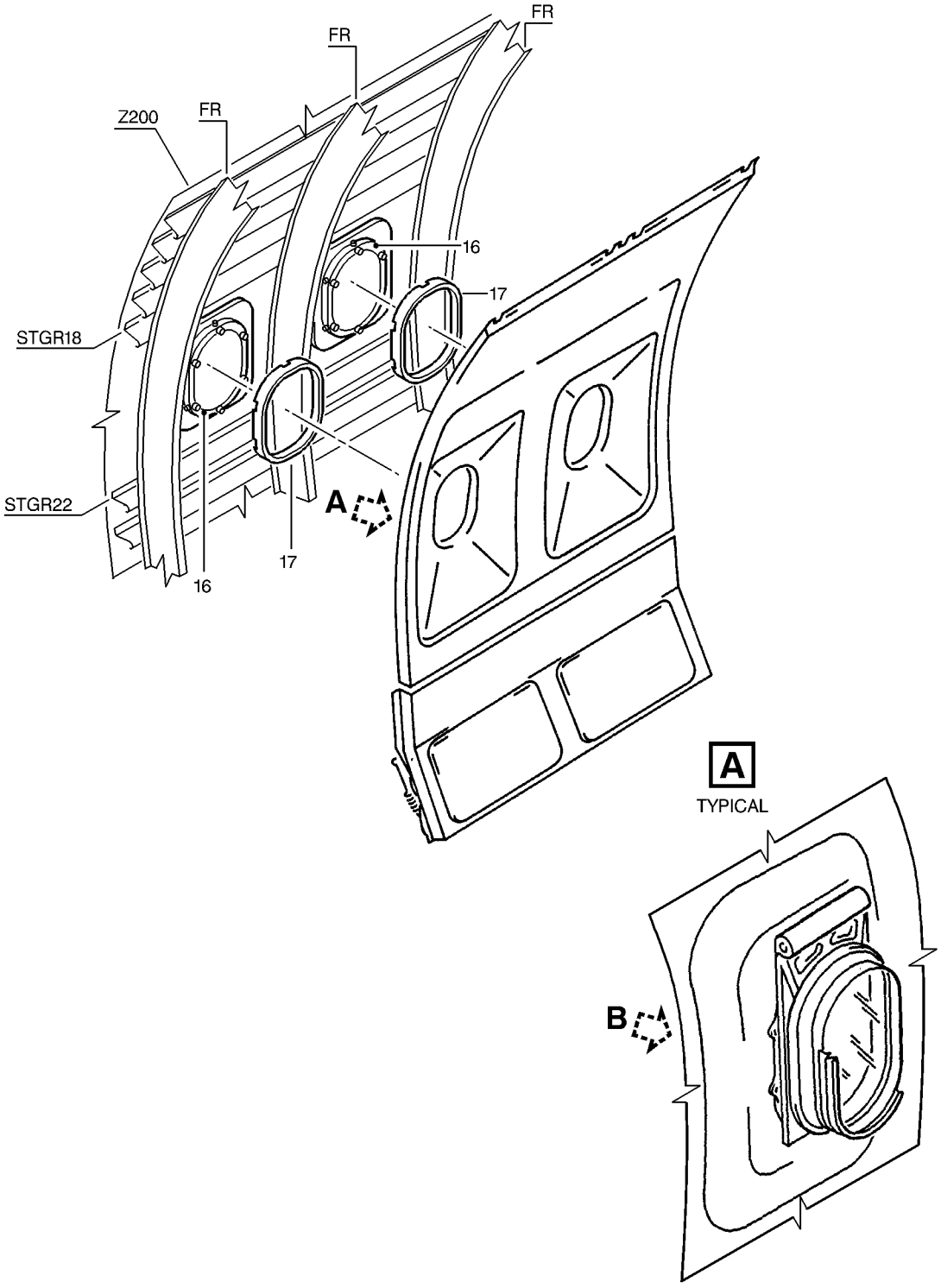
Upper Sidewall Panels
Figure 401




Upper Sidewall Panels STA4120(FR76) to STA4302(FR79)
Figure 402

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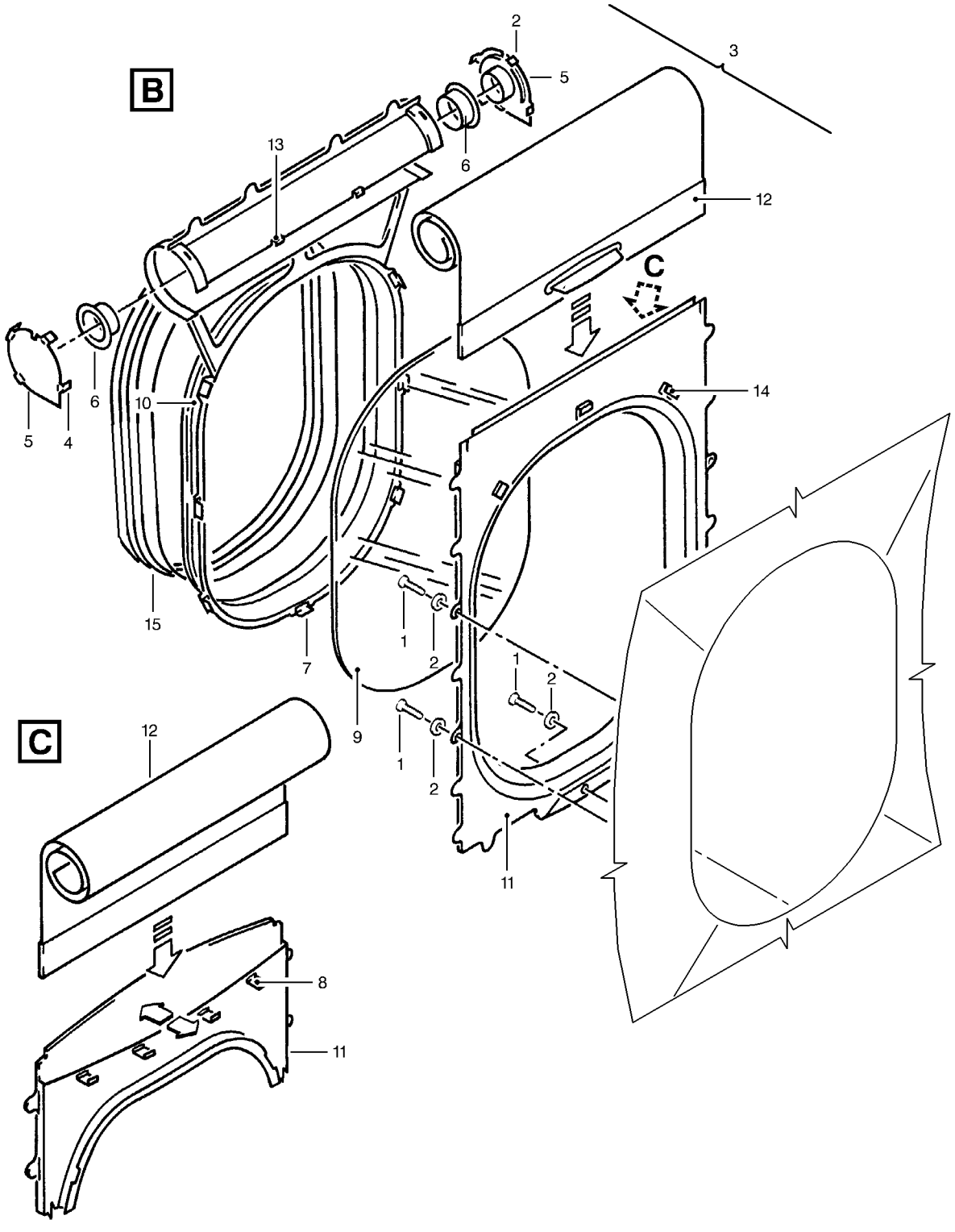
Window Fairing with Roll Shade and Window Sealing
(Sheet 1/2)
Figure 403

R

R EFFECTIVITY: 001-004,

PIA




Window Fairing with Roll Shade and Window Sealing
(Sheet 2/2)
Figure 403

R

R EFFECTIVITY: 001-004,

PIA

D. Installation
(1)Not applicable

**ON A/C ALL

R (3)Examine the markings on the sidewall panels STA2135(FR38.1) to STA2241(FR39) and STA2718(FR50) to STA2878(FR53) (Ref. Fig. 404).
NOTE : These markings (brown triangles) identify the windows through which you can look at the external slat/flap position markings.
(a)Make sure that the markings on the sidewall panels STA2135(FR38.1) to STA2241(FR39) and STA2718(FR50) to STA2878(FR53) on both sides are in a good condition.
CAUTION : USE ONLY THE SPECIFIED MATERIALS AND OBEY THE INSTRUCTIONS FROM THE MANUFACTURERS. OTHER MATERIALS CAN CAUSE DAMAGE TO THE SURFACE PROTECTION OF THE COMPONENTS AND THE RELATED AREA.
1 If necessary paint a new marking to the sidewall panel, use LAQUERS (Material No. 07-012).
R (4)Install sidewall panels STA1340(FR18) to STA3938(FR73) (Ref. Fig. 401).
(a)Position sidewall panel (5) and engage spigots (4).
(b)Install retainers (3) and screws (2).
(c)Install strips (1).

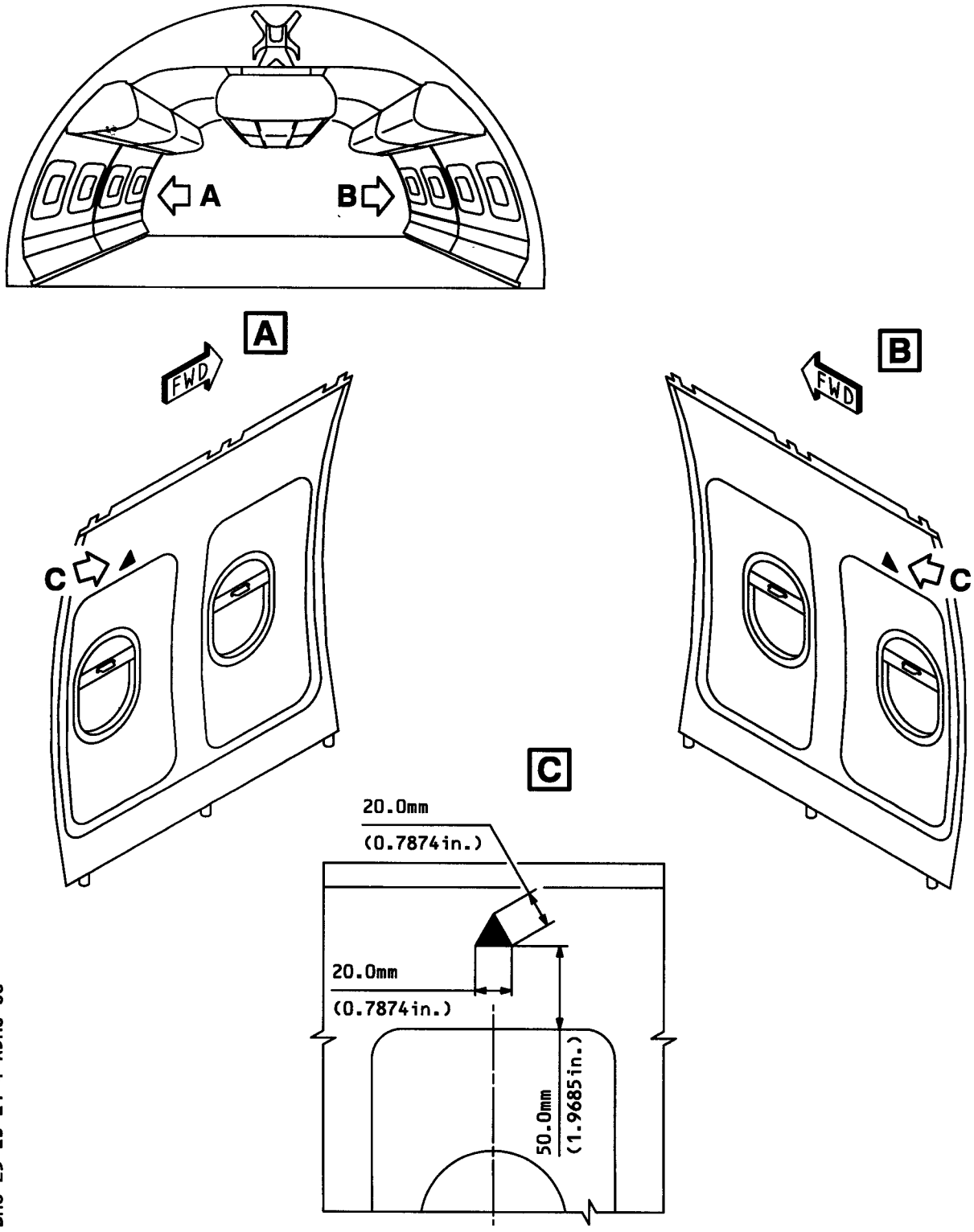
**ON A/C 001-100,

R (5)Install sidewall panels STA4120(FR76) to STA4302(FR79) (Ref. Fig. 402).
(a)Position panel (6) and engage spigots (10).
(b)Connect electrical connector to reading light.
(c)Install screws (7) and washers (8).
(d)Position panel (6) and engage spigots (5).
(e)Connect electrical connector to oxygen mask container.
(f)Not applicable
(g)Install washers (3) and screws (2).
(h)Position panel (9) and engage spigots (10).
(j)Install washers (8) and screws (7).
(k)Position panel (4) and engage spigots (5).
(l)Install washers (3) and screws (2).

E. Test
(1)Remove safety clips and tags and close circuit breakers 1WR and 20LZ.
(2)Carry out functional test of passenger oxygen system (Ref. 35-21-00, P. Block 501).
(3)Carry out functional test of cabin attendant reading lights (Ref. 33-27-11, P. Block 501).

**ON A/C 101-200,

E. Close-Up
(1)Install fluorescent lighting covers (Ref. 25-23-63, P. Block 401).
(2)Install ancillary equipment as required (Ref. 25-27-00, P. Block 401).
(3)Install passenger seats (Ref. 25-21-00, P. Block 401).




Sidewall Panel Markings
Figure 404

(4)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

**ON A/C 001-100,

F. Close-Up
(1)Install fluorescent lighting covers (Ref. 25-23-63, P. Blokc 401).
(2)Install cabin attendant swivel seats (Ref. 25-21-51, P. Block 401).
(3)Install ancillary equipment as required (Ref. 25-27-00, P. Block 401).
(4)Install passenger seats (Ref. 25-21-00, P. Block 401).
(5)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

## LOWER SIDEWALL PANELS - REMOVAL/INSTALLATION

1. Reason for the Job

A. Access to equipment, insulation or structural parts which are concealed behind the panels
B. Visual inspection of lower sidewall panels and of area behind lower sidewall panels for foreign material accumulation.

R **ON A/C 001-100,

2. Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 23-31-00, P. Block 501 | Passenger Address System |
| - 23-43-00, P. Block 501 | Cabin and Flight Crew Call System |
| - 23-44-00, P. Block 501 | Cabin and Service Interphone |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-21-51, P. Block 401 | Cabin Attendant Swivel-Seat |
| - 25-23-21, P. Block 401 | Upper Sidewall Panels |
| - 25-27-14, P. Block 401 | Cupboard |
| - 25-66-10, P. Block 201 | Passenger Compartment Decompression Panels |
| - 25-63-00, P. Block 501 | Evacuation Signaling Equipment |

R **ON A/C 101-200,

2. Referenced Procedures

| | |
|---|---|
| R - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-23-21, P. Block 401 | Upper Sidewall Panels |
| - 25-27-14, P. Block 401 | Cupboard |
| - 25-66-10, P. Block 201 | Passenger Compartment Decompression Panels |

R **ON A/C ALL

3. Procedure

A. Job Set-Up
(1)Remove seats adjacent to lower sidewall panels (Ref. 25-21-00, P. Block 401; 25-21-51, P. Block 401).
(2)Remove upper sidewall panel adjacent to lower sidewall panel with stowage boxes (Ref. 25-23-21, P. Block 401).
(3)Remove cupboards, if required (Ref. 25-27-14, P. Block 401).

R **ON A/C 001-100,

(4)Open, safety and tag the following circuit breakers:
NOTE : Only necessary when removing panel with attendant panel at STA4120(FR76).

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 21VU | CALLS/CABIN | 1RM | 101/J 7 |
| 22VU | MIN EQUPT BAY SUPPLY/COM/PUBLIC ADDRESS | 5RY | 208/B15 |
| 22VU | AUDIO SYS/INTPH AMPL/SVCE | 20RJ | 205/E17 |
| 22VU | EVAC SIGNAL | 1WP | 201/J28 |

**ON A/C ALL

B. Removal

**ON A/C 001-100,

(Ref. Fig. 401)

**ON A/C 101-200,

(Ref. Fig. 402)

**ON A/C ALL

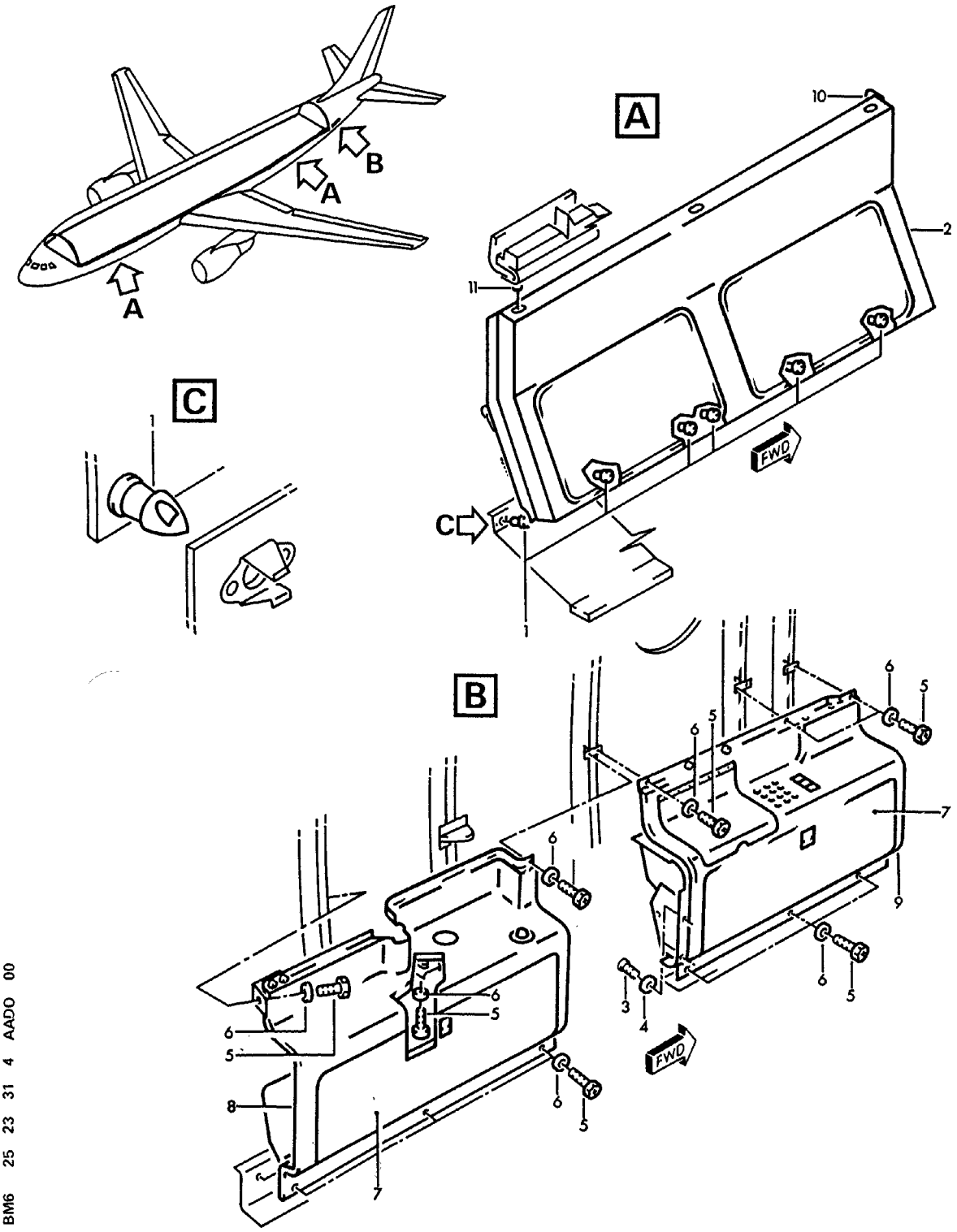
(1)Release quick release fasteners (1).
NOTE : Before removing a single panel, release adjoining panels. When removing two or more panels, start with most forward panel.
(2)Pull lower sidewall panel (2) downwards out of fixing spigots (11).
NOTE : Take care not to damage floor angle.

**ON A/C 001-100,

(3)Remove lower sidewall panel with stowages and attendant station at STA4120(FR76) to STA4302(FR79).
(a)Open stowage box doors (7) and empty boxes.
(b)Remove screws (3) and washers (4).
(c)Remove screws (5) and washers (6).
(d)Remove panel (9) with attendant panel and disconnect electrical connectors.
(e)Remove lower sidewall panel (8).

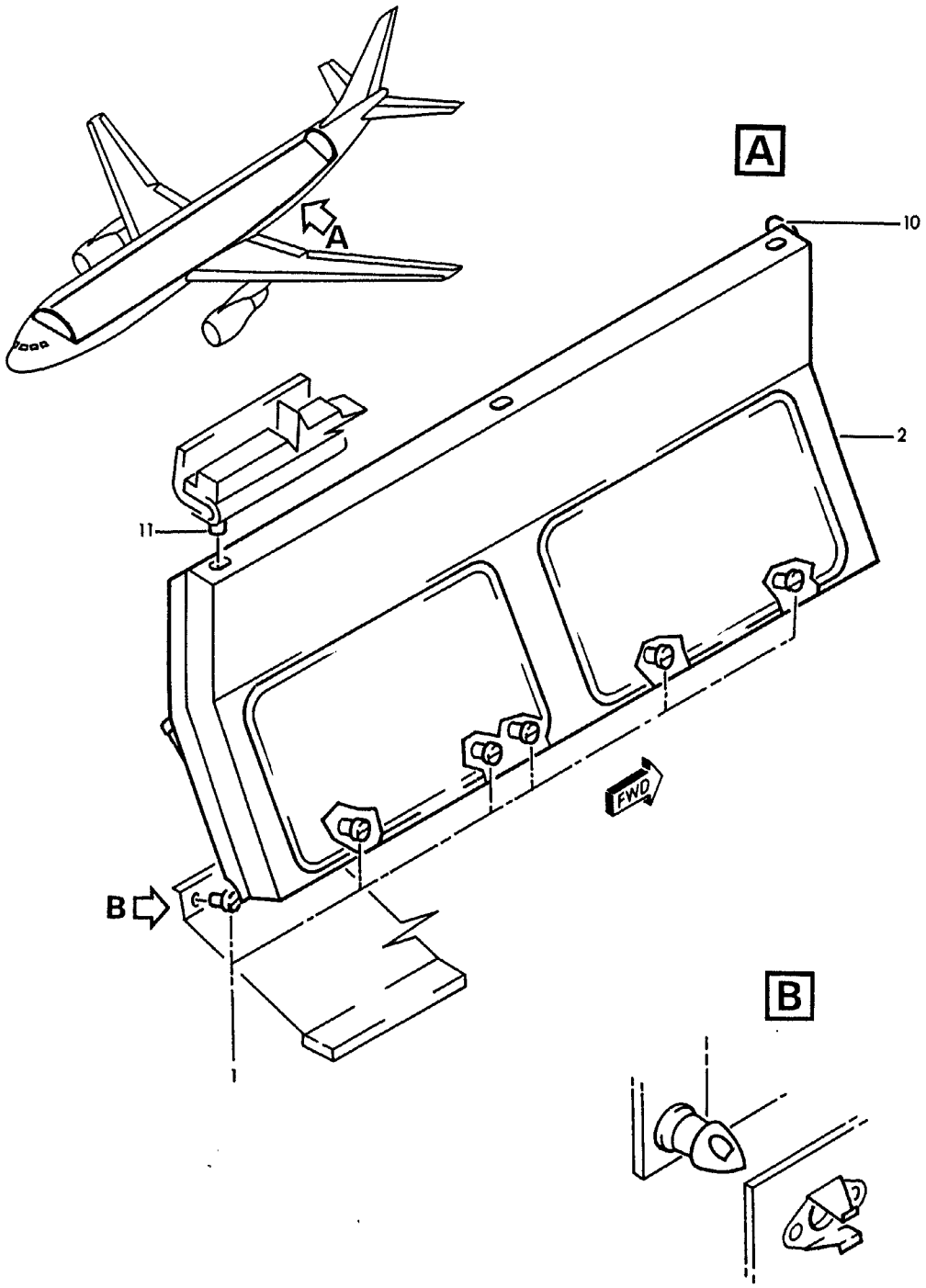
**ON A/C ALL

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(3)Make sure that the area behind the lower sidewall panels is clean and clear of tools and other items.




BM6 25 23 31 4 AADO 00

Lower Sidewall Panels
Figure 401




BM6 25 23 31 4 ABDO 00

Lower Sidewall Panels
Figure 402

D. Installation

R **ON A/C 001-100,

(Ref. Fig. 401)

R **ON A/C 101-200,

(Ref. Fig. 402)

R **ON A/C ALL

(1)Position lower sidewall panel (2).
NOTE : When installing two or more panels, start with aftermost panel.
(2)Engage spigots (11) and fasten quick release fasteners (1).
NOTE : Make certain that items are correctly seated on sealing strip (10).

R **ON A/C 001-100,

(3)Install lower sidewall panels with stowages and attendant station at STA4120(FR76) to STA4302(FR79).
(a)Position panels (8, 9) and connect electrical connectors.
(b)Install screws (5) and washers (6).
(c)Install screws (3) and washers (4).
(d)Install removed equipment to stowage boxes.

R **ON A/C ALL

E. Test

R **ON A/C 001-100,

(1)Carry out test of decompression panels (Ref. 25-66-10, P. Block 201).
(2)Carry out functional test of cabin and flight crew call system (Ref. 23-43-00, P. Block 501).
(3)Carry out functional test of passenger address system (Ref. 23-31-00, P. Block 501).
(4)Carry out functional test of service interphone system (Ref. 23-44-00, P. Block 501).
(5)Carry out operational test of evacuation signaling (Ref. 25-63-00, P. Block 501) and make certain that evacuation horn 15WP operates.

R **ON A/C 101-200,

(1)Carry out test of decompression panels (Ref. 25-66-10, P. Block 201).

R **ON A/C ALL

F. Close-Up
(1)Install upper sidewall panels (Ref. 25-23-21, P. Block 401).
(2)Install seats (Ref. 25-21-00, P. Block 401; 25-21-51, P. Block 401).
(3)Install cupboards (Ref. 25-27-14, P. Block 401).
(4)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

## DOOR FRAME LININGS - REMOVAL/INSTALLATION

WARNING : SPECIAL PRECAUTIONS MUST BE CARRIED OUT BEFORE OPENING DOORS (REF. 52-10-00, P. BLOCK 301 AND 52-23-00, P. BLOCK 301).

1. Reasons for the Job

A. To gain access to passenger/crew door frame fittings and structures

B. To gain access to door warning switches

C. Repair of linings

2. Equipment and Materials

| | ITEM | DESIGNATION |
|---|---|---|
| | A. | Access Platform, 4.6-5.2 m (15-17 ft.) |
| R | B. | Stepladder, 1m (3 ft.) |

Referenced Procedures

| | | |
|---|---|---|
| | - 11-00-00, P. Block 1 | Placards and Markings - General |
| | - 23-44-00, P. Block 501 | Cabin and Service Interphone |
| | - 23-31-00, P. Block 501 | Passenger Address System |
| | - 23-43-00, P. Block 501 | Cabin and Flight Crew Call System |
| | - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| | - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| | - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| | - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| | - 25-26-00, P. Block 1 | Curtains and Partitions |
| | - 25-29-00, P. Block 1 | Electrical Service Supply |
| R | - 33-21-00, P. Block 501 | General Illumination |
| | - 33-23-00, P. Block 501 | Call System |
| | - 33-27-11, P. Block 401 | Cabin Attendant Work Lights |
| | - 33-51-00, P. Block 501 | Passenger Compartment Emergency Lighting |
| R | - 33-51-13, P. Block 401 | Door Exit Sign - Module |
| R | - 35-21-00, P. Block 501 | Passenger Oxygen System |
| | - 52-10-00, P. Block 301 | Passenger/Crew Doors - Special Precautions |
| | - 52-23-00, P. Block 301 | Emergency Exit - Special Precautions |
| | - 25-41-11, P. Block 401 | Lavatory A |
| | - 25-63-00, P. Block 501 | Evacuation Signaling Equipment |

3. Procedure

A. Job Set-Up

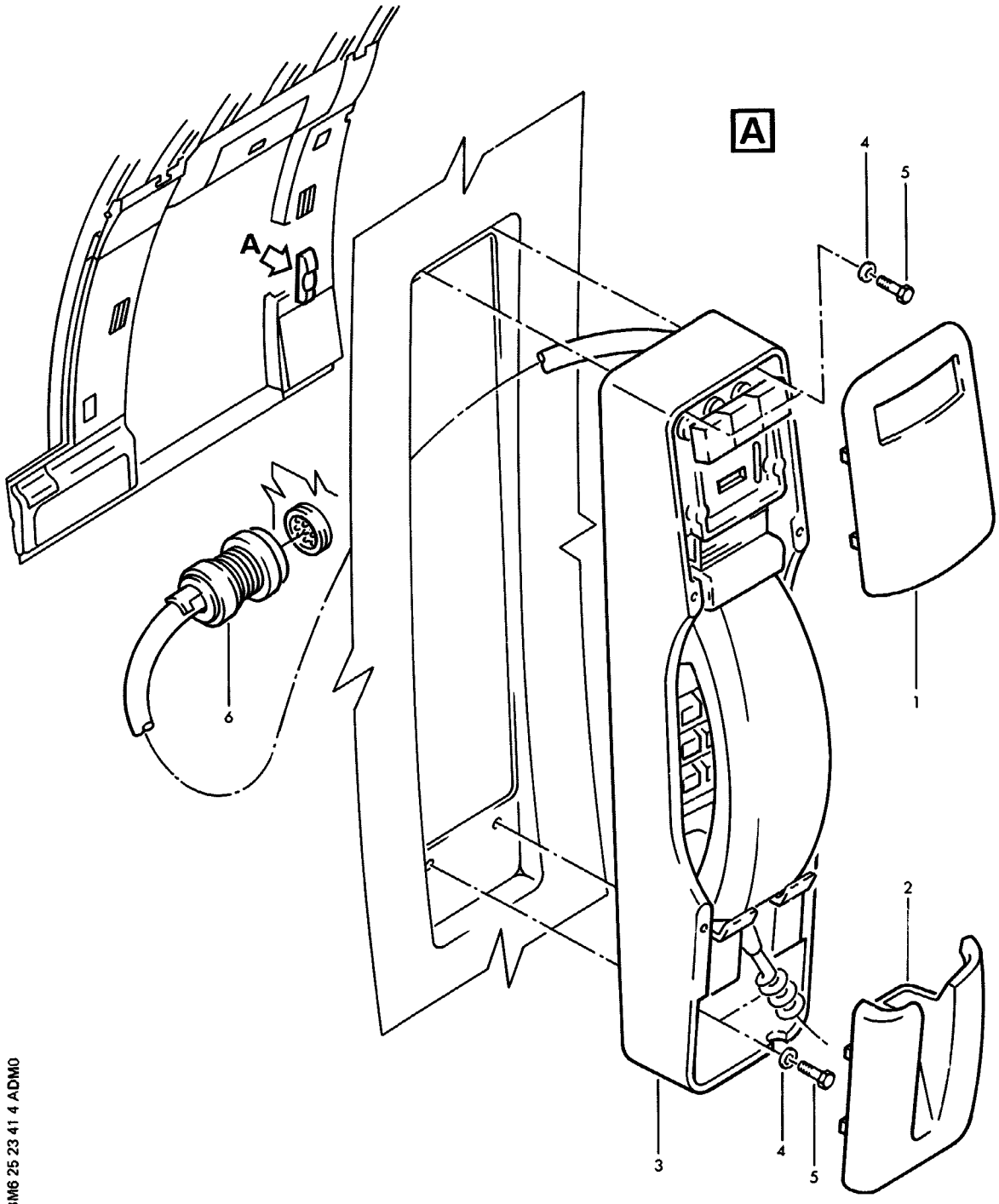
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | OXYGEN CTL/WARN | 1WR | H24 |
| 800VU | READING LIGHT | 3LW | C 3 |
| 800VU | READING LIGHT | 9LW | C 9 |
| 800VU | CABIN LIGHT PWR-ENTRY | 20LG | A 7 |

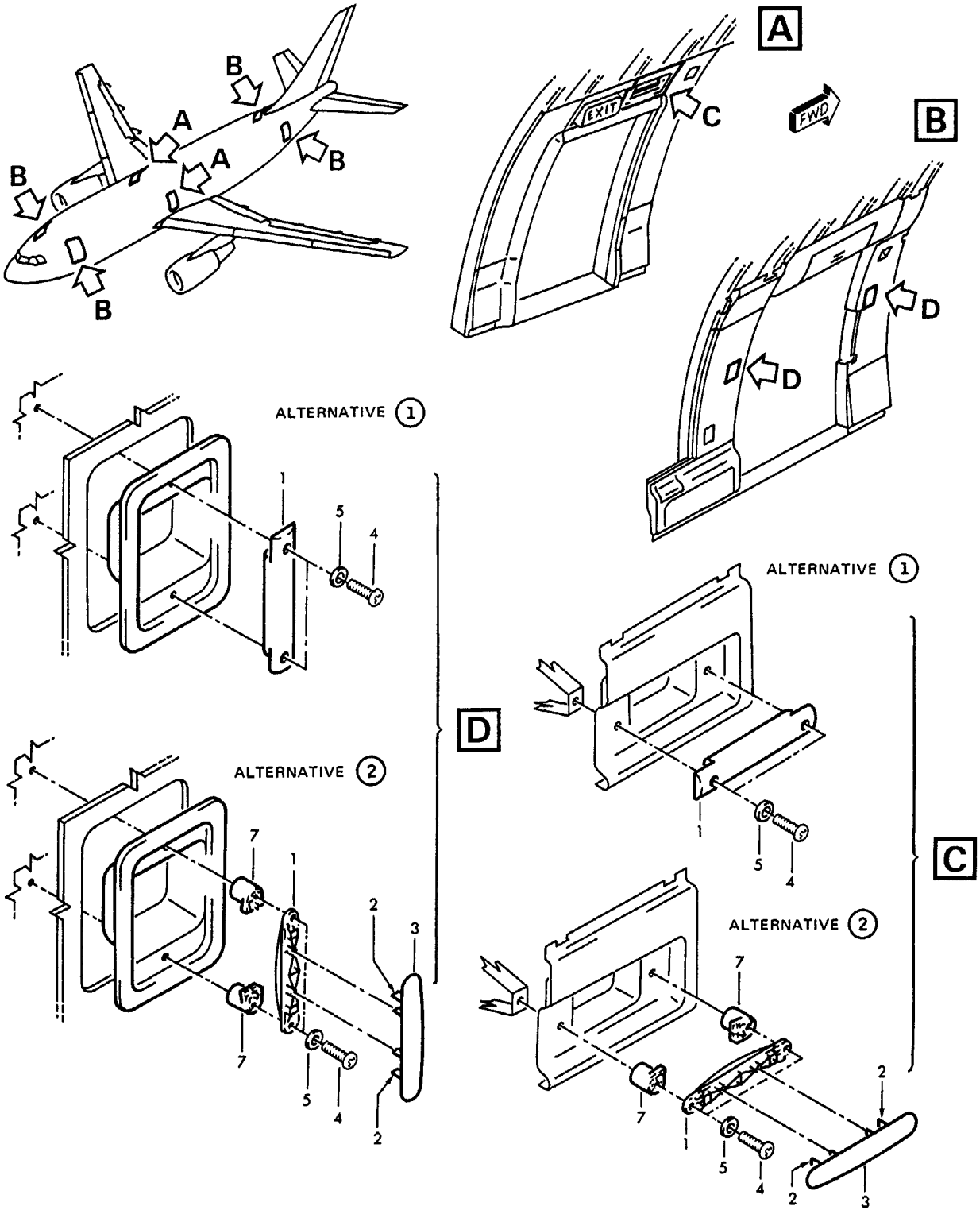
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | CABIN LIGHT CONTR-ENTRY | 21LG | A10 |
| 800VU | CABIN LIGHT CONTR-CABIN | 119LG | A12 |
| 800VU | CABIN LIGHT CONTR-CABIN | 124LG | A13 |
| 22VU | EVAC SIGNAL | 1WP | E24 |
| 132VU | EMER EXIT LT CHARGE | 24WL | L75 |
| 800VU | VACUUM CLEANER SOCKET ZO231 | 1ME | E 1 |
| 800VU | VACUUM CLEANER SOCKET ZO232 | 2ME | E 2 |
| 800VU | VACUUM CLEANER SOCKET ZO241 | 3ME | E 3 |
| 800VU | VACUUM CLEANER SOCKET ZO242 | 4ME | E 4 |

(2)On panel 436VU, make certain that switch EMER EXIT LT ON-ARM-DISARM (22WL) is in DISARM position.
(3)On panel 818VU, make certain that switch EMERG (28WL) is in OFF position.
(4)Remove fluorescent light covers and utility area ceiling panels (Ref. 25-23-63, P. Block 401 and Ref. 25-23-13, P. Block 401).
(5)Remove passenger and cabin attendant seats, as required (Ref. 25-21-00, P. Block 401 and 25-21-61, P. block 401).
(6)Remove attendant work lights (Ref. 33-27-11, P. Block 401), as required.
R (7)Remove partitions, as required (Ref. 25-26-00, P. Block 1).
(8)Position access platform by each door, as required.
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE OPENING DOORS (REF. 52-10-00, P. BLOCK 301 AND 52-23-00, P. BLOCK 301).
(9)Open passenger/crew doors and emergency exit doors, as required.

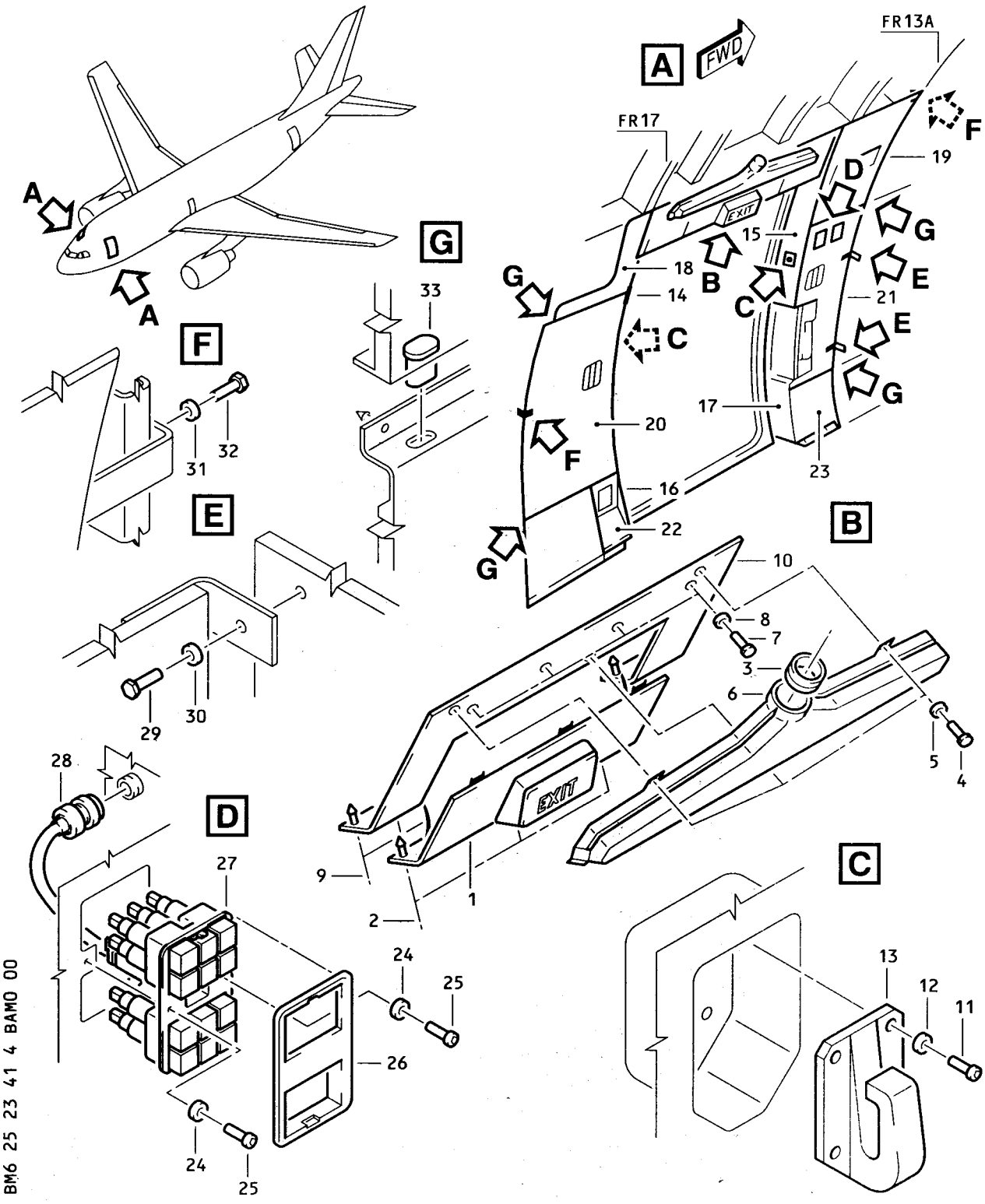
B. Removal
(1)Remove interphone panels, if fitted (Ref. Fig. 401).
(a)Unclip snap-fitted covers (1, 2).
(b)Remove screws (5) and washers (4).
NOTE : Upper attachment screws are accessible after pressing pushbuttons.
(c)Withdraw interphone panel (3) from position until electrical connector (6) is accessible.
(d)Disconnect electrical connector (6) and remove interphone panel (3).
(2)Remove vacuum cleaner socket from door frame linings.
(a)Remove screws and washers securing support plate to door frame linings.
(b)Remove screws, washers, nuts and support plate from vacuum cleaner socket.
(3)Remove handgrip from door frame linings (Ref. Fig. 402)
(a)Insert a suitable tool into the gaps behind the handgrip (1).
(b)Press snap parts (2) of the grip cover (3) in direction of arrow and remove grip cover (3).
(c)Remove screws (4), washers (5) if installed and handgrip (1).
(d)Remove distance pieces (7) if installed.
(e)Remove cover (8).
R (4)Remove FWD passenger/crew door frame lining (Ref. Fig. 403).
R NOTE : Door warning switch is accessible after lowering panel (1).
R (a)Release quick-release fasteners (2).
R (b)Lower panel (1) and disconnect exit light connector.
R (c)Remove clamp (3).




Interphone Panel on Door Frame Lining
Figure 401




Handgrip on Door Frame Linings
Figure 402

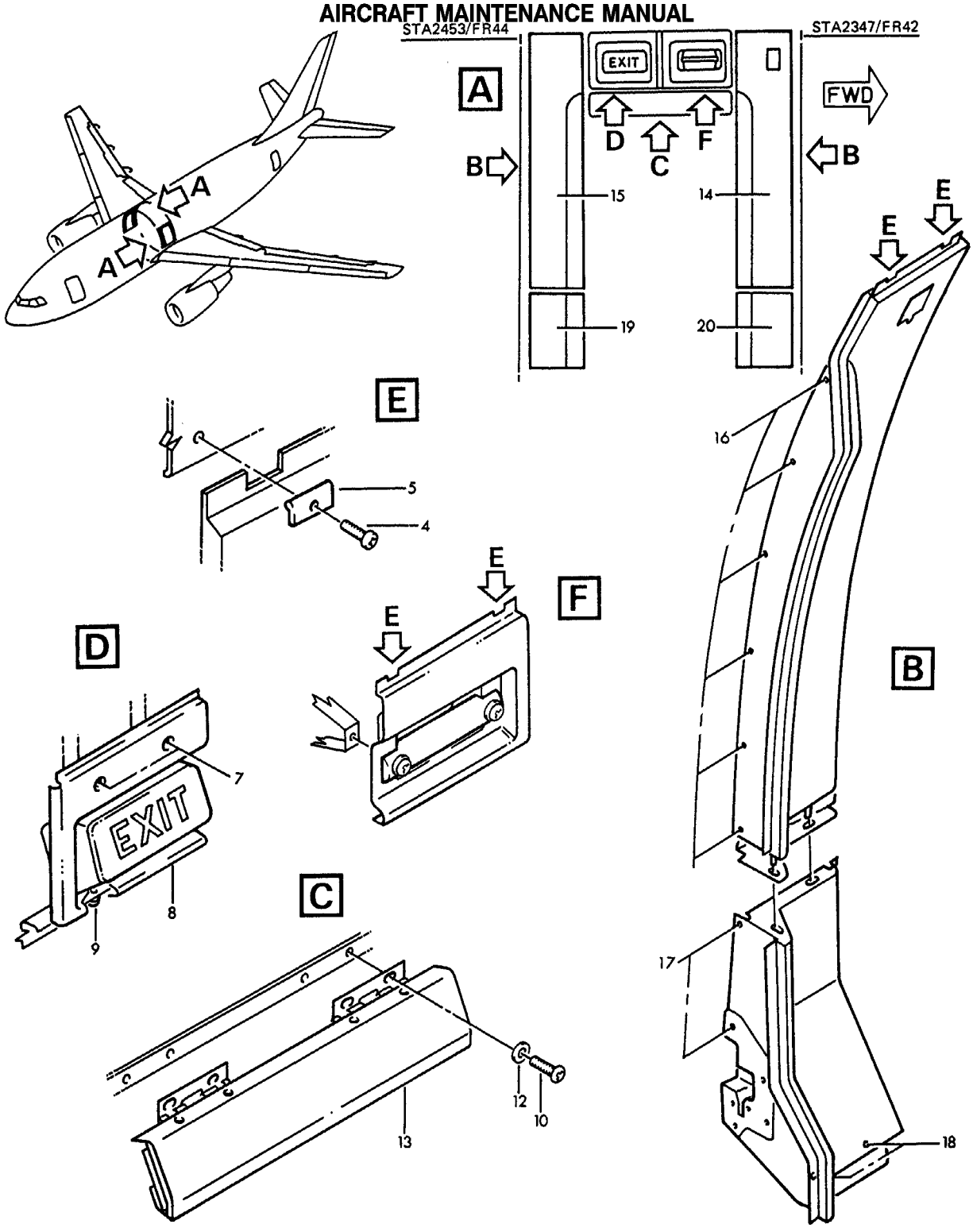



Typical FWD Passenger/Crew Door Frame Linings
Figure 403

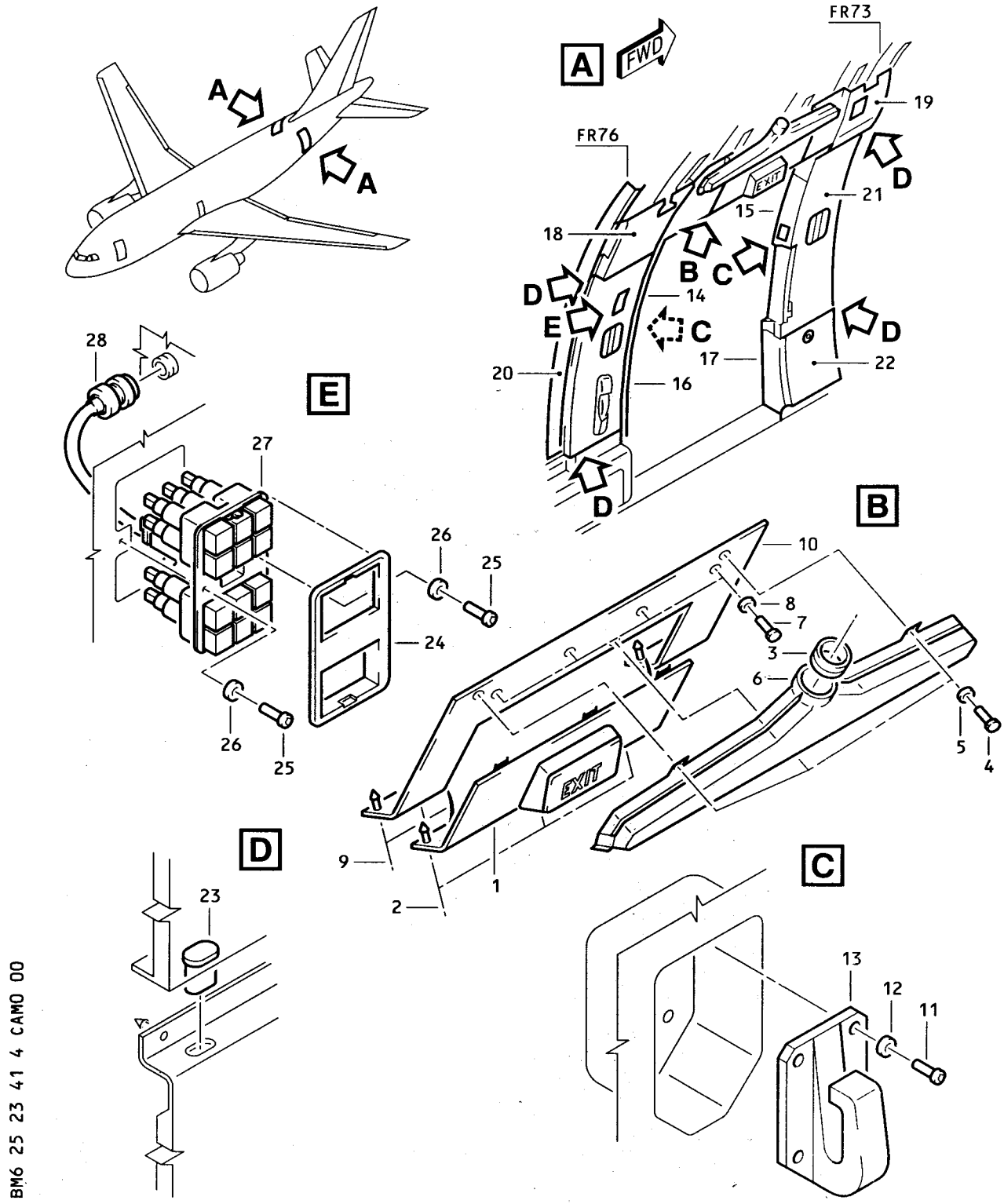
R

R (d)Remove screws (4), washers (5) and duct (6).
R (e)Remove screws (7), washers (8), release quick-release fasteners (9) and remove panels (1, 10).
R (f)Remove screws (11), washers (12) and fittings (13).
R (g)Release quick-release fasteners and remove panels (14, 15, 16, 17).
R (h)Release quick-release fasteners and remove panels (18).
R NOTE : Spigots (33) must be lifted out of lower panel.
R (j)Release quick-release fastener and remove screw (32), washer (31) and panel (19).
R NOTE : Spigots (33) must be lifted out of lower panel.
R 1 Disconnect oxygen box electrical connector.
R (k)Release quick-release fasteners, loosen screw (32), washer (31) and remove panel (20).
R NOTE : Spigots (33) must be lifted out of lower panel.
R (l)Release quick-release fasteners, remove screws (29), washers (30) and remove panel (21).
R 1 Remove switch covers (26).
R 2 Remove screws (25) and washers (24).
R 3 Disconnect electrical connector (28) and remove panel (27).
R (m)Release quick-release fasteners and remove panels (22, 23).
(5)Remove emergency exit door frame linings (Ref. Fig. 404).
(a)Remove screws (4), retainers (5) and panel (6).
(b)Release quick-release fasteners (7), disengage spigots (9) and allow panel to hang from lanyard.
(c)Disconnect exit light connector.
(d)Detach lanyard and remove panel (8).
(e)Remove screws (10), washers (12) and panel (13).
(f)Remove screws (4) and retainers (5) from panels (14, 15).
(g)Release quick-release fasteners (16) and remove panels (14, 15).
(h)Release quick-release fasteners (17, 18) and remove panels (19, 20).
R (6)Remove AFT passenger/crew door frame linings (Ref. Fig. 405).
R NOTE : Door warning switch is accessible after lowering panel (1).
R (a)Release quick-release fasteners (2).
R (b)Lower panel (1) and disconnect exit light connector.
R (c)Remove clamp (3).
R (d)Remove screws (4), washers (5) and duct (6).
R (e)Remove screws (7), washers (8), release quick-release fasteners (9) and remove panels (1, 10).
R (f)Remove screws (11), washers (12) and fittings (13).
R (g)Release quick-release fasteners and remove panels (14, 15, 16, 17).
R (h)Release quick-release fasteners and remove panels (18, 19).
R NOTE : Spigots (23) must be lifted out of lower panel.
R 1 Disconnect oxygen box electrical connector.
R (j)Release quick-release fasteners and remove panels (20, 21).
R NOTE : Spigots (23) must be lifted out of lower panel.
R 1 Remove switch covers (24).
R 2 Remove screws (25) and washers (26).
R 3 Disconnect electrical connector (28) and remove panel (27).
R (k)Release quick-release fasteners and remove panel (22).

C. Preparation for Installation




Typical Emergency Exit Door Frame Linings
Figure 404




Typical AFT Passenger/Crew Door Frame Linings
Figure 405

R

(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation

NOTE : Make certain that vacuum cleaner socket is accessible after installation of linings.

NOTE : Panels must be installed in the sequence given.

R (1)Install FWD passenger/crew door frame linings (Ref. Fig. 403).
R (a)Position panel (23, 22) and fasten quick-release fasteners.
R (b)Position panel (21) and fasten quick-release fasteners, washers (30) and screws (29).
R 1 Position panel (27) and connect electrical connector (28).
R 2 Install washers (24) and screws (25).
R 3 Install switch cover (26).
R (c)Position panel (20), engage spigots (33), fasten quick-release fasteners, washer (31) and screw (32).
R (d)Position panel (19), engage spigots (33), fasten quick-release fastener, install washer (31) and screw (32).
R 1 Connect oxygen box electrical connector.
R (e)Position panels (18), engage spigots (33) and fasten quick-release fasteners.
R (f)Position panels (14, 15, 16, 17) and fasten quick-release fasteners.
R (g)Install fittings (13) with washers (12) and screws (11).
R (h)Position panels (1, 10), install washers (8), screws (7) and fasten quick-release fasteners (9).
R (j)Position duct (6), install washers (5), screws (4) and clamp (3).
R (k)Connect exit light connector.
R (l)Position panel (1) and fasten quick-release fasteners (2).

(2)Install emergency exit door frame linings (Ref. Fig. 404).
(a)Position panels (19, 20) and fasten quick-release fasteners (17, 18).
(b)Position panels (14, 15), fasten quick-release fasteners (16) and install retainers (5) with screws (4).
(c)Install panel (13), with screws (10) and washers (12).
(d)Position panel (8) and attach lanyard.
(e)Connect exit light connector.
(f)Engage spigots (9) and fasten quick-release fasteners (7).
(g)Position panel (6) install screws (4) and retainers (5).

R (3)Install AFT passenger/crew door frame linings (Ref. Fig. 405).
R (a)Position panel (22) and fasten quick-release fasteners.
R (b)Position panels (20, 21), engage spigots (23) and fasten quick-release fasteners.
R 1 Position panel (27) and connect electrical connector (28).
R 2 Install washers (26) and screws (25).
R 3 Install switch cover (24).
R (c)Position panels (18, 19), engage spigots (23) and fasten quick-release fasteners.
R (d)Position panels (14, 15, 16, 17) and fasten quick-release fasteners.
R (e)Install fittings (13) with washers (12) and screws (11).
R (f)Position panels (1, 10) and install washers (8), screws (7) and fasten quick-release fasteners (9).

R (g)Position duct (6) and install washers (5), screws (4) and clamp (3).
R (h)Connect exit light connector.
R (j)Position panel (1) and fasten quick-release fasteners (2).
R (4)Not applicable.
(5)Install interphone panels, if removed (Ref. Fig. 401).
(a)Position interphone panel (3) and connect electrical connector (6).
(b)Install washers (4) and screws (5).
NOTE : Upper attachment points are accessible after pressing pushbuttons.
(c)Install covers (1, 2), press cover until snapped in position.
(6)Install vacuum cleaner sockets to door frame linings.
(a)Install vacuum cleaner socket to support plate with screws, washers and nuts.
(b)Install support plate with screws and washers to door frame lining.
(7)Install handgrip to door frame linings (Ref. Fig. 402)
(a)Install cover (8).
(b)Install distance pieces (7), if removed.
(c)Install handgrip (1), washers (5), if installed and screws (4).
(d)Attach grip cover (3) to the handgrip (1), ensure snap parts (2) engage correctly.

R E. Test
R (1)Remove safety clips and tags, and close circuit breakers 20WL, 21WL, 24WL and 1WP.
R (2)Carry out operational test of exit lights (Ref. 33-51-00, P. Block 501).
R (3)Carry out functional test of cabin and flight crew call system (Ref. 23-43-00, P. Block 501).
R (4)Carry out functional test of passenger address system (Ref. 23-31-00, P. Block 501).
R (5)Carry out functional test of service interphone system (Ref. 23-44-00, P. Block 501).
R (6)Carry out functional test of evacuation signalling equipment (Ref. 25-63-00, P. Block 501).
R (7)Carry out functional test of emergency oxygen container (Ref. 35-21-00, P. Block 501).
R (8)Carry out functional test of general illumination (Ref. 33-21-00, P. Block 501).
R (9)Carry out functional test of passenger reading lights (Ref. 33-25-00, P. Block 501).

F. Close-Up
(1)Install fluorescent lighting covers and ceiling panels (Ref. 25-23-63, P. Block 401 and 25-23-13, P. Block 401).
(2)Install attendant work light (Ref. 33-27-11, P. Block 401 and 33-27-21, P. Block 401).
(3)Remove safety clips and tags, and close circuit breakers 1ME, 2ME, 3ME, 4ME, 5ME and 6ME.
(4)Install partitions, as required (Ref. 25-26-00, P. Block 1).
(5)Install passenger and cabin attendant seats, as required (Ref. 25-21-00, P. Block 401 and 25-21-61, P. Block 401).
(6)Make certain that working area is clean and clear of tools and miscella-

neous items of equipment.

(7) Close passenger/crew doors and emergency exit doors, and remove access platforms.

# FLUORESCENT LIGHTING COVER - REMOVAL/INSTALLATION

## 1. Reasons for the Job

A. Removal/replacement of equipment behind lighting covers.
B. Access to hard points above lighting covers.
C. Removal of panels and furnishing.

## 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. 98A25207503000 | Pulley Assembly - Sealing Cord |

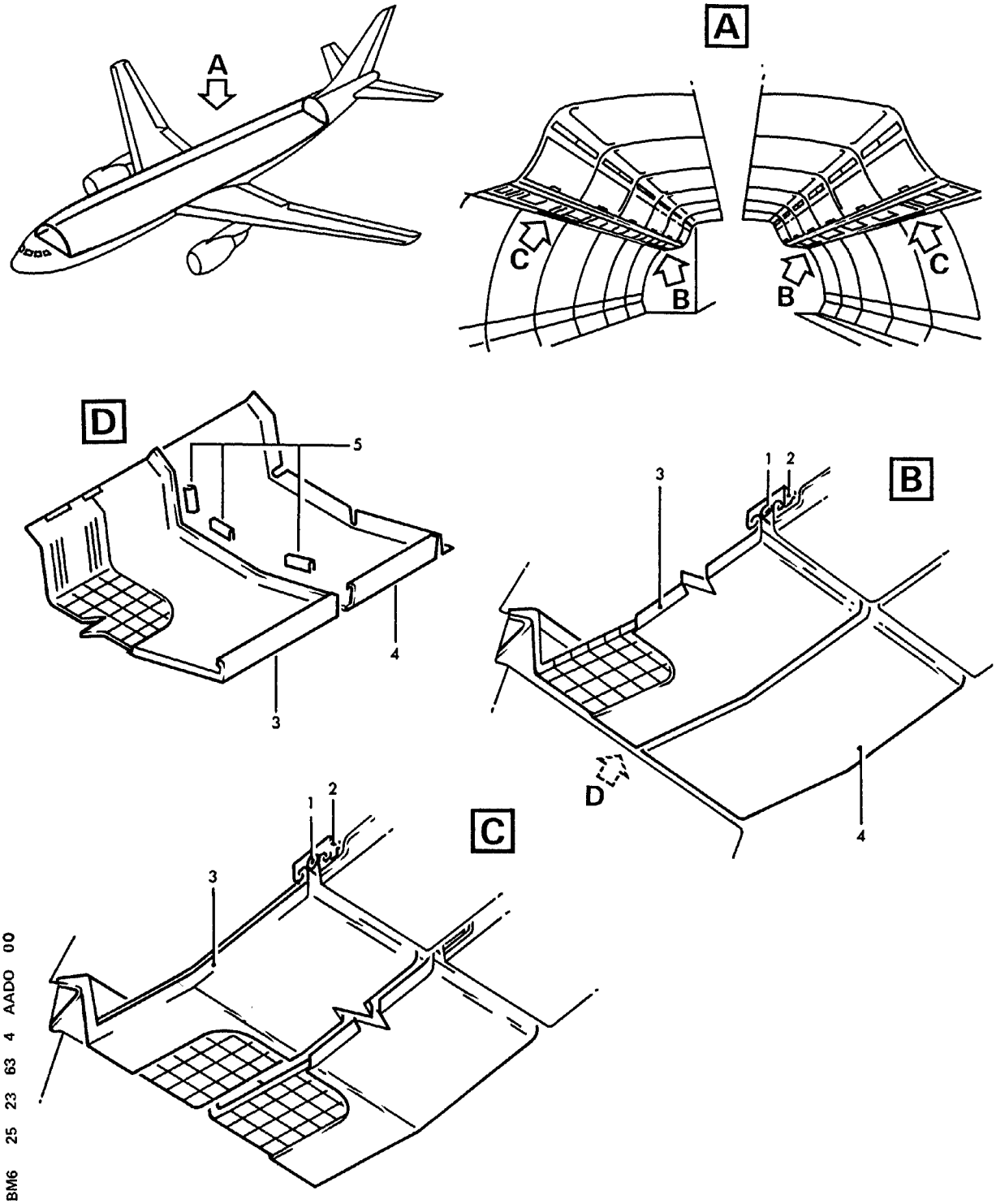
R Referenced Procedures
R - 11-00-00, P. Block 1 — Placards and Markings - General

## 3. Procedure

A. Removal
(Ref. Fig. 401)
NOTE : End caps, if fitted, must be removed together with adjacent lighting cover.
(1)Remove lighting cover.
(a)Remove mounting seal (1) from service rail (2).
(b)Lower lighting cover (3) from service rail and remove inboard.
(2)Remove end caps.
(a)Remove mounting seal (1) from service rail (2).
(b)Remove adjacent lighting cover together with end cap (4).
(c)Remove clips (5) and end cap (4) from lighting cover (3).

R B. Preparation for Installation
R (1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
R (2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

R C. Installation
(Ref. Fig. 401)
NOTE : Rolling in mounting seals in one direction only causes them to contract. In this case panels are not fixed correctly. Make certain that abutments of mounting seals do not align with joints between panels where oxygen containers are installed.
(1)Install end caps.
NOTE : End cap (4) must be installed together with adjacent lighting covers.
(a)Install end cap (4) with clips (5) to lighting cover (3).
(b)Position lighting cover (3) together with end cap (4).
(c)Position mounting seal (1) and roll in mounting seal by moving pulley assy. P/N 98A25207503000 backwards and forwards.
(2)Install lighting cover.

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Lighting Covers
Figure 401

(a)Position lighting cover (3) at sidewall panel and raise into service rail (2).
(b)Position mounting seal (1) in service rail (2).
(c)Roll in mounting seal by moving pulley assy. P/N 98A25207503000 backwards and forwards.

R D. Close-Up

(a)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# OVERHEAD STOWAGE COMPARTMENTS - DESCRIPTION AND OPERATION

## 1. General

The overhead stowage compartments are located above the seat rows of the passenger cabin from frames 18 to 74 and are attached to the fuselage structure by brackets and fittings.

Access to the upward opening doors of the overhead stowage compartments is gained from the aisles between the seat rows.

Panels on the lower side of the compartments contain passenger service units, emergency oxygen equipment and passenger signs. Service channels behind these panels carry the electrical cables and air pipes that supply the panel services.

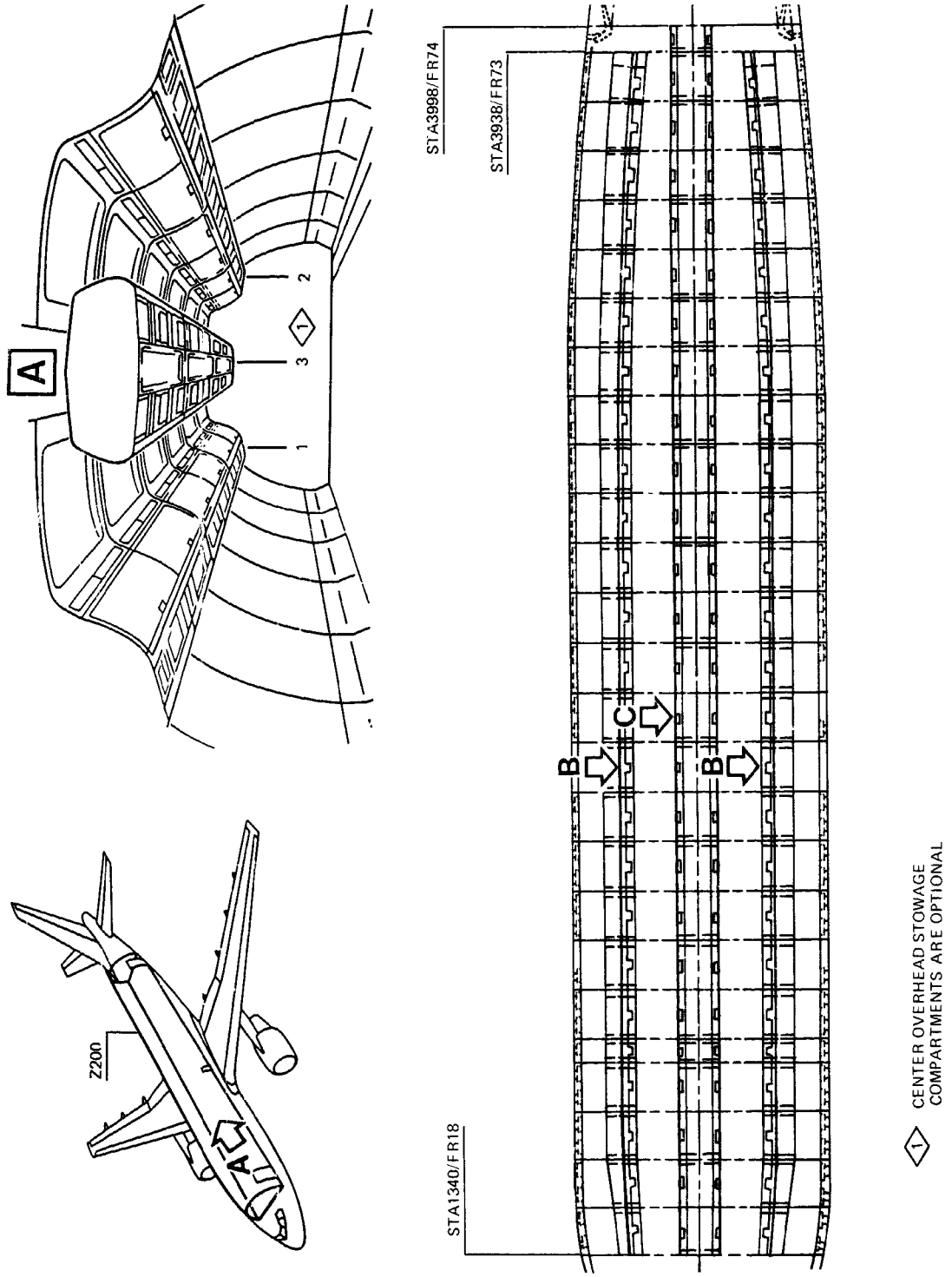
The sidewall compartment attachment brackets and fittings are covered by the cabin ceiling panels above the compartments and by the fluorescent light covers below the compartments. The center compartment attachment is covered by strut covers which are attached to the ceiling panel securing rails and with quick-release fasteners, to brackets on the compartments. The forward and aft end faces of each row of compartments (frames 18, 73 and 74) are covered by polycarbonate panels.

At various locations video monitors and/or projectors are installed in the center overhead stowage compartments.

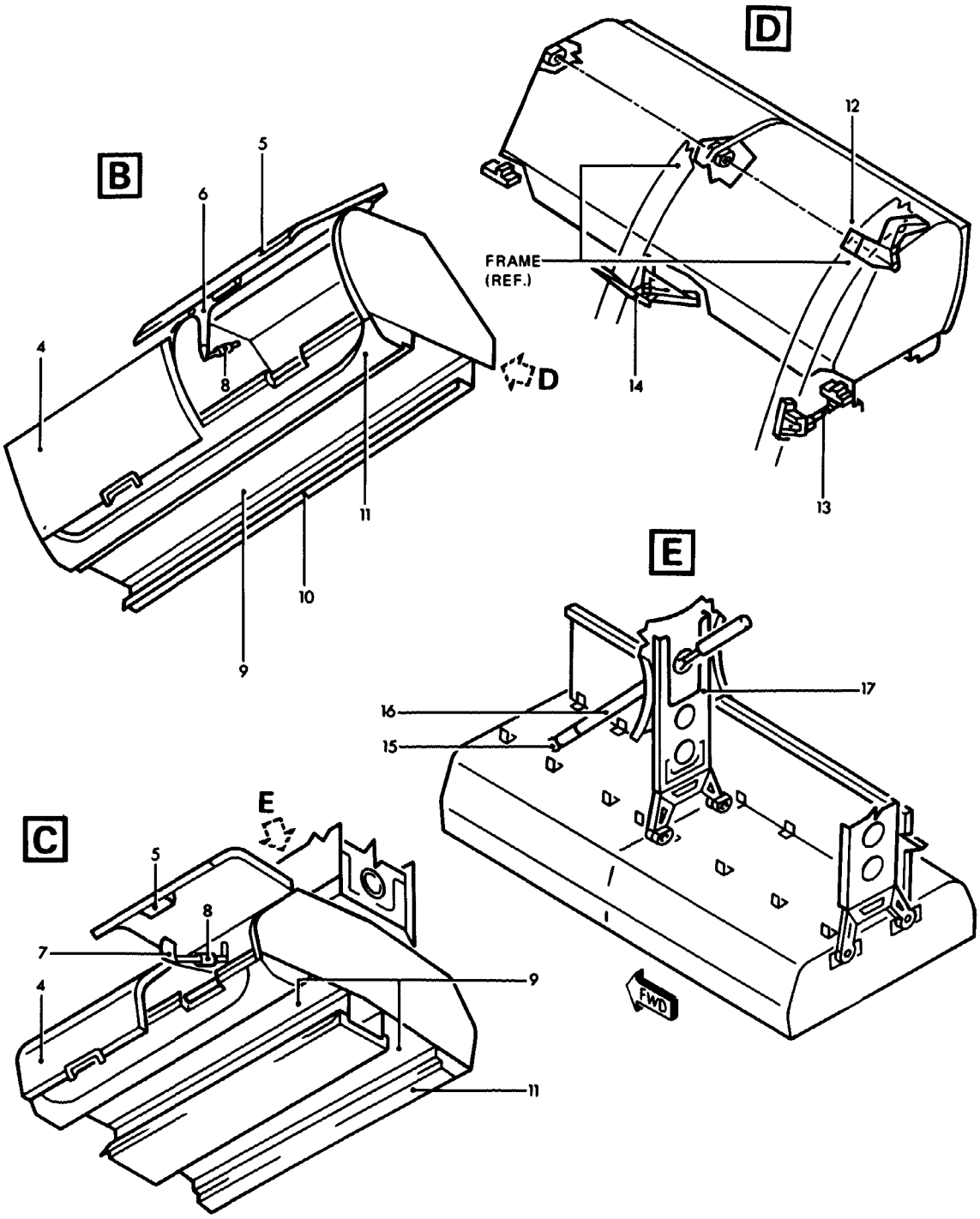
## 2. Component Location

A. Overhead Stowage Compartments (Ref. Fig. 001)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF. |
|---|---|---|---|---|---|
| 1 | Sidewall Overhead Stowage Compartment (RH) | | 200 | | |
| 2 | Sidewall Overhead Stowage Compartment (LH) | | 200 | | |
| 3 | Center Overhead Stowage Compartment | | 200 | | |
| 4 | Overhead Stowage Compartment Door | | | | |
| 5 | Locking Mechanism | | | | |
| 6 | Lever Mechanism (Sidewall Compartments) | | | | |
| 7 | Hinges (Center Compartments) | | | | |
| 8 | Shock Absorber | | | | |
| 9 | Service Channel | | | | |
| 10 | Securing Rail | | | | |
| 11 | Grip rail | | | | |
| 12 | Upper Attachment Fitting | | | | |
| 13 | Lower Lateral Attachment Fitting | | | | |
| 14 | Lower Center Attachment Fitting | | | | |
| 15 | Fork Fitting | | | | |
| 16 | Tie-rod | | | | |
| 17 | Y-Strut | | | | |




Overhead Stowage Compartments
(Sheet 1/2)
Figure 001




Overhead Stowage Compartments
(Sheet 2/2)
Figure 001

B. Circuit Breakers (Ref. Fig. 002)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF. |
|---|---|---|---|---|---|
| 1LZ | Circuit Breaker - ATTN/READ LIGHT | 800VU | 223 | | |
| 1LN | Circuit Breaker - CALL SYSTEM/PASS | 800VU | 223 | | |
| 3LN | Circuit Breaker - CALL SYSTEM/TEST | 800VU | 223 | | |
| 5LN | Circuit Breaker - CALL SYSTEM/TEST | 800VU | 223 | | |
| 1WR | Circuit Breaker - PASSENGER OXYGEN/ CTL & WARN | 22VU | 212 | | |
| 3LW | Circuit Breaker - READING LIGHTS | 800VU | 223 | | |
| 5RY | Circuit Breaker - MIN EQPT BAY SUPPLY/COM/PUBLIC ADDRESS | 22VU | 212 | | |
| 6RY | Circuit Breaker - MIN EQPT BAY SUPPLY/COM/PUBLIC ADDRESS | 22VU | 212 | | |
| 22WL | Switch - ON ARM - DISARM | 436VU | 212 | | |
| 28WL | Pushbutton - EMERG | 818VU | 223 | | |
| 9LW | Circuit Breaker - READING LIGHTS | 800VU | 223 | | |
| 27LN | Circuit Breaker - CALL SYSTEM/ PASSENGER | 811VU | 263 | | |
| 28WJ | Circuit Breaker - PASSENGER SIGNS/ SEAT BELTS & RETURN TO SEAT | 129VU | 222 | | |
| 29WJ | Circuit Breaker - PASSENGER SIGNS/ SEAT BELTS & RETURN TO SEAT | 129VU | 222 | | |
| 30WJ | Circuit Breaker - PASSENGER SIGNS/ SEAT BELTS | 129VU | 222 | | |
| 31WJ | Circuit Breaker - PASSENGER SIGNS/ NO SMOKING | 129VU | 222 | | |
| 119LG | Circuit Breaker - LIGHT CONTROL/ CABIN | 800VU | 223 | | |

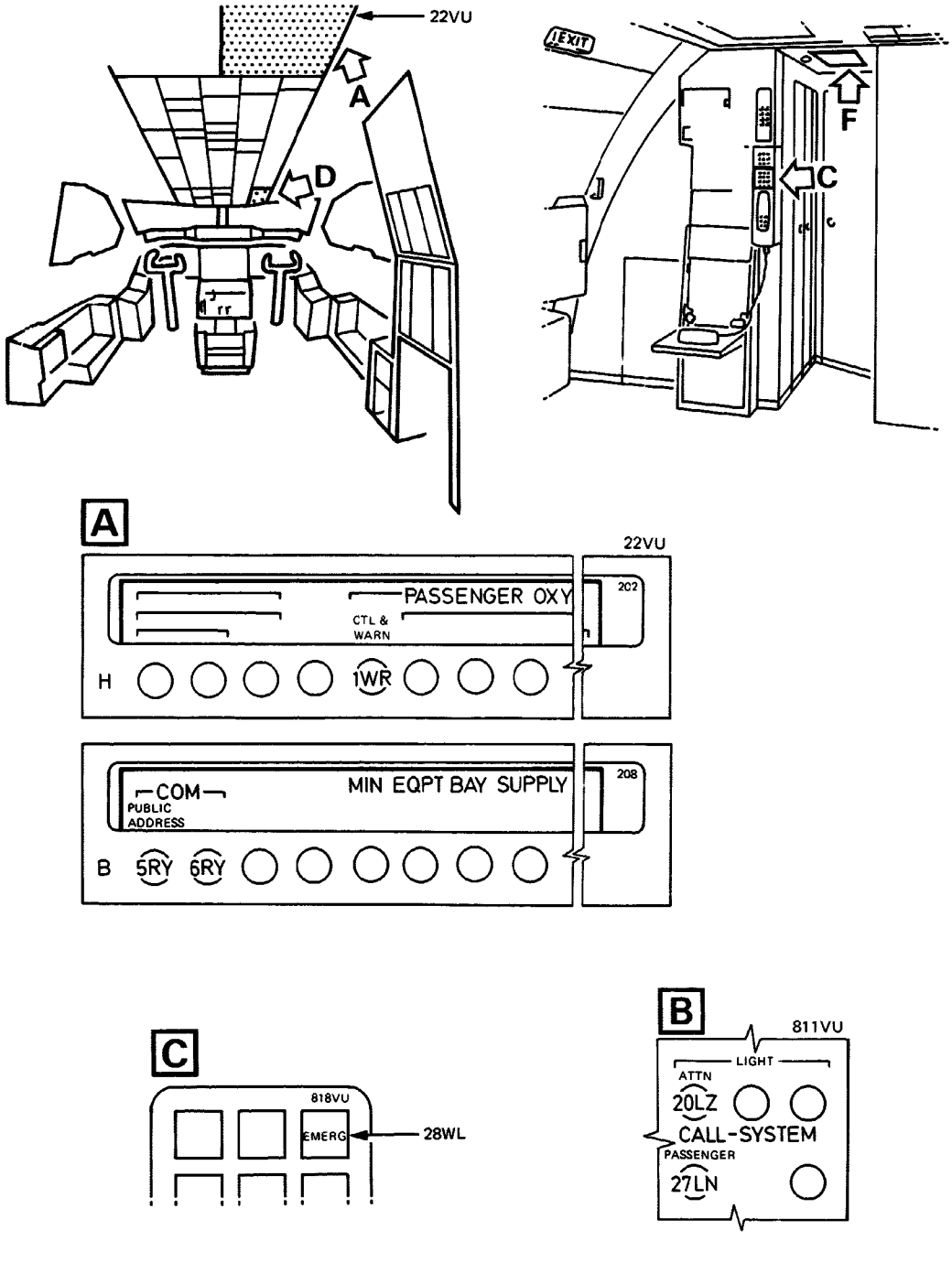
3. Description and Operation

NOTE : Center overhead stowage compartments are optional.

The overhead stowage compartment rows are made up of individual box structures joined together longitudinally. The side rows are single box structures and the center row double box structures, back to back. The box structures are divided laterally at mid length to form double or quadruple compartments per structure. Distribution of the overhead stowage compartments is the same as the distribution of the sidewall panels and the ceiling panels.

The individual box structure is constructed of honeycomb material. Core filler is used to fill in edges, holes and recesses of the honeycomb components. Ferrules are bonded into the honeycomb at hinge and attachment fitting mounting points. The compartments are equipped with doors made of honeycomb reinforced polycarbonate material.

The sidewall compartment doors are hinged on arms to the walls of the compartment. The hinge arms are adjustable, by means of eccentric bolts mounted in the door attachment brackets, to obtain the correct profile when the door is in the closed position. Door opening is assisted by two shock absorbers, each mounted on a lever of the door hinge arm and on the sidewall of the box structure. The shock absorber damps the movement of the door and mo-

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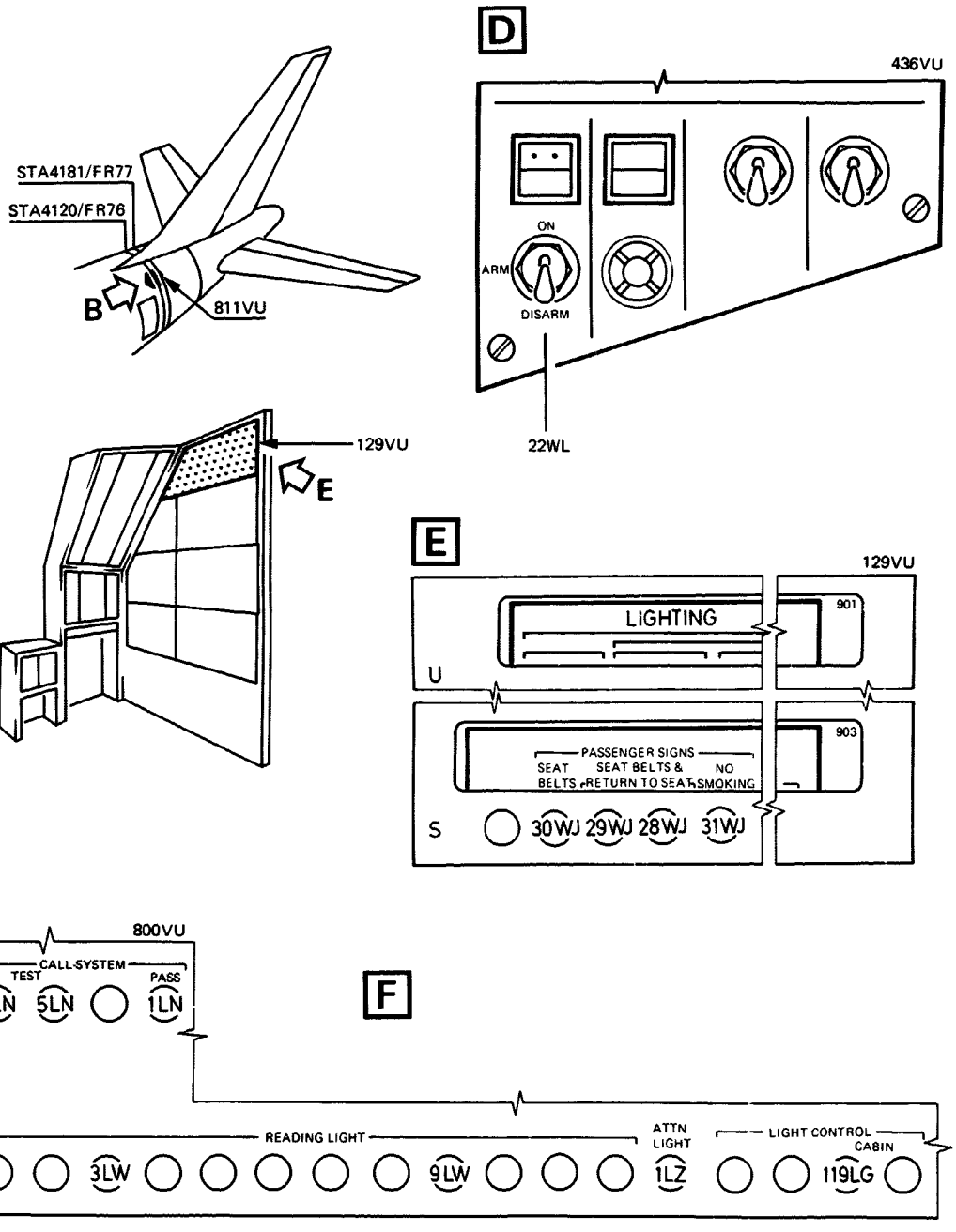
Circuit Breakers
(Sheet 1/2)
Figure 002

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Circuit Breakers
(Sheet 2/2)
Figure 002

ves the door to the open position if not completely closed. Access to the shock absorber is gained by removal of side covers which are attached to the compartment walls by Velcro tape.

The center overhead stowage compartment doors are hinged to the upper edge of the compartment. Door opening is assisted by a shock absorber mounted on a lever of the hinges and to the ceiling of the stowage box. The shock absorber damps the movement of the door and moves the door to the open position if not completely closed. To obtain the correct profile when the door is in the open position, the attachment of the shock absorber is adjustable. Elongated slots in the door hinges permit adjustment in the longitudinal plane.

A locking mechanism, located in the bottom edge of the door, in conjunction with a locking bracket, located forward of the compartment floor, retains the door in the closed position. Downward operation of the flush fitting lock handle withdraws two latch pins, against spring pressure, from the locking bracket, allowing the door to open upwards, assisted by the shock absorber.

The interior of each compartment is covered with colored plastic foil.

Light alloy sections, carrying PVC securing rails, are attached to the underside of each compartment. These sections form a channel, within which are contained electrical cables, and air pipes supplying the passenger service units and illuminated signs. Passenger service units, emergency oxygen mask stowage and illuminated sign panels are attached to the securing rails.

Cabin temperature control sensors are installed underneath the RH sidewall overhead stowage compartment doors at FR26, 49 and 67. On the center compartment, the space between the service channels is closed by cover panels. Insulation mats are secured to the outer face of sidewall compartments with double-backed tape.

Bearings and fittings bolted to the underside and the tops of the walls of each sidewall compartment align with fittings and tie-rods attached to fuselage frames. The tie-rods permit alignment to be obtained with adjacent compartments. The lower brackets are adjustable longitudinally to give alignment with the frame fittings.

On center compartments, bearings bolted onto the upper walls align with 'y' struts mounted on the fuselage frames. A fork fitting mounted on the roof of the compartment, in conjunction with reinforcement brackets fitted to the box unit dividing wall, joins an adjustable tie attached to the central 'y' strut. This tie gives pitch plane alignment with adjacent compartments. The 'y' struts carry brackets for attachment of the ceiling panels and strut covers.

Gaps between boxes and compartments are covered by trim strips, which are bonded to the sidewalls of the compartments.

1. Reason for the Job

A. Adjustment of overhead stowage compartment doors after replacement or repair.

R **ON A/C 101-102, 105-105,

2. Procedure (Ref. Fig. 501)

**ON A/C 001-005,

2. Procedure (Ref. Fig. 502)

R **ON A/C 006-100, 103-104, 106-200,

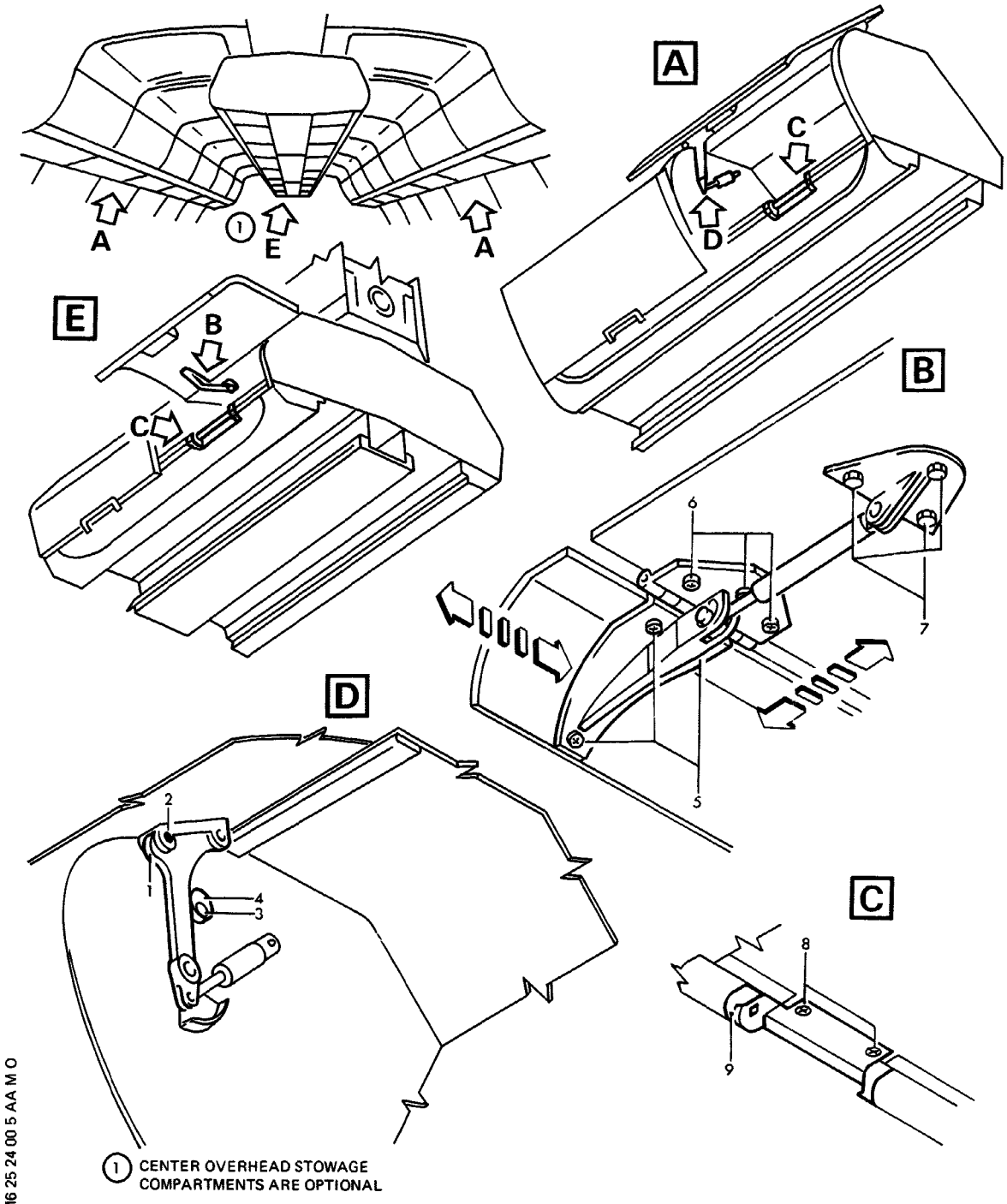
2. Procedure (Ref. Fig. 503)

**ON A/C ALL

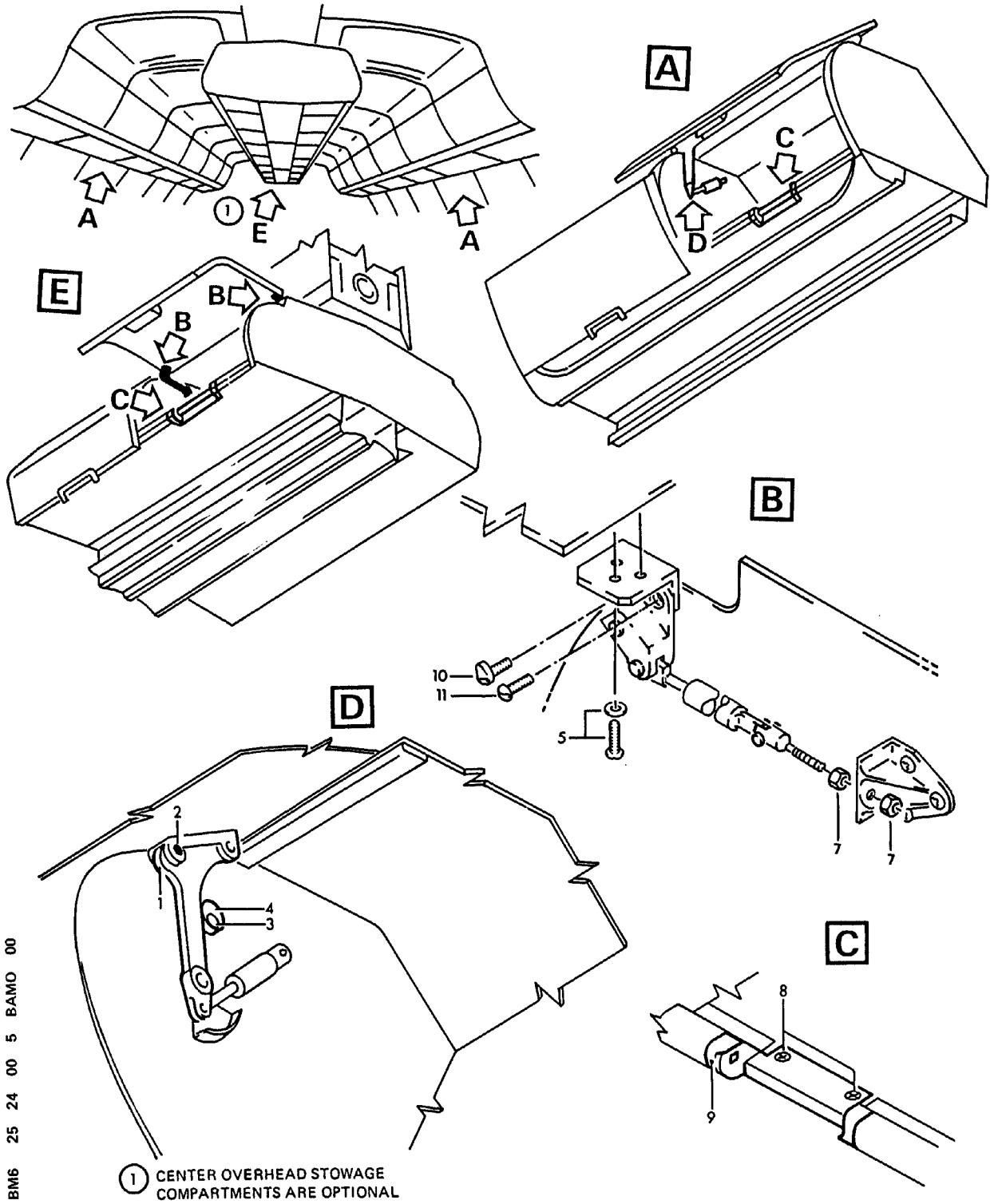
A. Adjust sidewall overhead stowage compartment doors.
(1)Adjust door opening angle.
(a)Open stowage compartment doors.
(b)Loosen screw (3).
(c)Turn hinge stop (4) until door aligns with adjacent compartment doors and tighten screw (3).
(2)Adjust door closed profile.
(a)Loosen setscrew (1).
(b)Turn eccentric bolt (2) until door aligns with adjacent compartment doors and tighten setscrew (1).
NOTE : Ensure door locks properly. If not correct, proceed with step C.

R **ON A/C 101-102, 105-105,

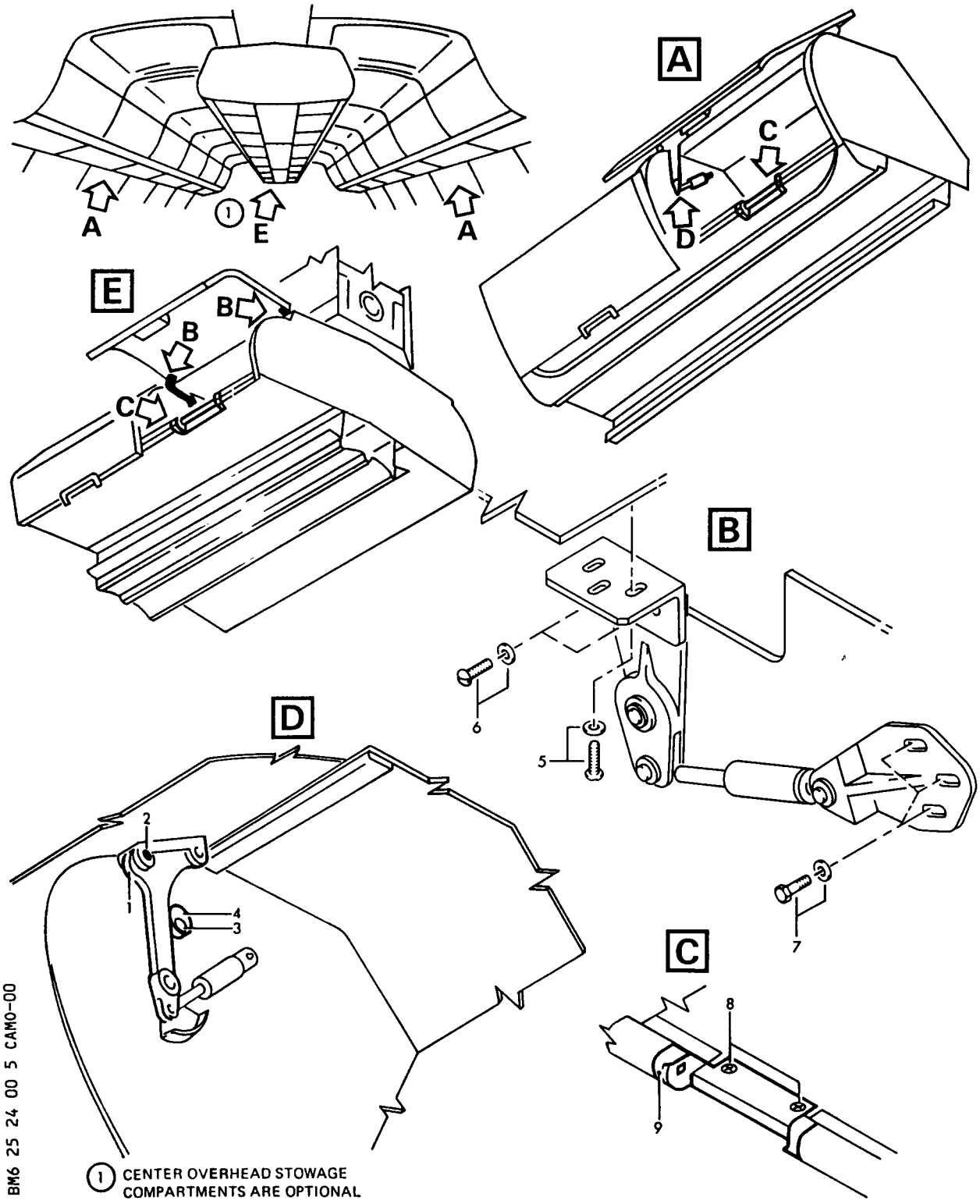
B. Adjust center overhead stowage compartment doors.
(1)Adjust door to align with adjacent compartment doors.
(a)Open stowage compartment doors.
(b)Loosen screws (6).
(c)Adjust door inboard or outboard to align with adjacent doors and tighten screws (6).
(2)Adjust gap between doors.
(a)Loosen screws (5).
(b)Adjust gap between doors and tighten screws (5).
(3)Adjust door opening angle.
(a)Loosen screws (7).




Adjustment of Overhead Stowage Compartment Doors
Figure 501




Adjustment of Overhead Stowage Compartment Doors
Figure 502




Adjustment of Overhead Stowage Compartment Doors
Figure 503

(b)Adjust door opening angle and tighten screws (7).
NOTE : Ensure door locks properly. If not correct, proceed with step C.

**ON A/C 001-005,

B. Adjust center overhead stowage compartment doors.
(1)Adjust door to align with adjacent compartment doors.
(a)Open stowage compartment doors.
(b)Loosen nuts (7).
(c)Loosen setscrew (11) and turn eccentric bolt (10) until door is in correct position.
(d)Adjust door inboard or outboard to align with adjacent doors and tighten nuts (7) and setscrew (11).
(2)Adjust gap between doors.
(a)Loosen screws (5).
(b)Adjust gap between doors and tighten screws (5).
(3)Adjust door opening angle.
(a)Loosen nuts (7).
(b)Adjust door opening angle and tighten nuts (7).
NOTE : Ensure door locks properly. If not, proceed with step C.

R **ON A/C 006-100, 103-104, 106-200,

B. Adjust center overhead stowage compartment doors.
(1)Adjust door to align with adjacent compartment doors.
(a)Open stowage compartment doors.
(b)Loosen screws (7) and (6).
(c)Adjust door inboard or outboard to align with adjacent doors and tighten screws (7) and (6).
(2)Adjust gap between doors.
(a)Loosen screws (5).
(b)Adjust gap between doors and tighten screws (5).
(3)Adjust door opening angle.
(a)Loosen screws (7).
(b)Adjust door opening angle and tighten screws (7).
NOTE : Ensure door locks properly. If not, proceed with step C.

**ON A/C ALL

C. Adjust door lock bracket (9).
(1)Loosen screws (8).
(2)Adjust door lock bracket (9) and tighten screws (8).
NOTE : Make certain that door aligns with adjacent compartment doors when closed.

D. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(2)Close all doors opened during adjustment.

## SIDEWALL OVERHEAD STOWAGE COMPARTMENT - REMOVAL/INSTALLATION

1. Reason for the Job

A. Gain access to:
- insulation
- equipment
- structural components

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips |
| B. | Torque Wrench, 0 to 0.5 m.daN (0 to 44 lbf.in.) |
| C. Material No. 08-007 | Bonding and Adhesive Compounds (Ref. 30-31-00) |

Referenced Procedures

| | |
|---|---|
| R - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 23-31-00, P. Block 501 | Passenger Address System |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-24-00, P. Block 501 | Overhead Stowage Compartment |
| - 25-25-00, P. Block 1 | Passenger Service Units |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 33-21-00, P. Block 501 | General Illumination |
| - 33-23-00, P. Block 501 | Call System |
| - 33-25-00, P. Block 501 | Passenger Reading Lights |
| - 33-26-00, P. Block 501 | Passenger Lighted Signs |
| - 35-21-00, P. Block 501 | Passenger Oxygen System |
| - 49-61-11, P. Block 401 | Electronic Control Box |

3. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | CABIN LIGHT CONTR/CABIN | 119LG | A12 |
| 800VU | CABIN LIGHT CONTR/CABIN | 124LG | A13 |
| 800VU | READING LIGHT | 3LW | C 3 |
| 800VU | CALL SYSTEM/TEST | 1LN | E13 |
| 800VU | CALL SYSTEM/TEST | 5LN | E11 |
| 800VU | CALL SYSTEM/PASS | 3LN | E10 |
| 800VU | READING LIGHT | 12LW | C12 |
| 811VU | CALL SYSTEM PASSENGER | 27LN | B14 |
| 22VU | PASSENGER OXYGEN CTL & WARN | 1WR | H24 |
| 22VU | COM PASSENGER ADDRESS | 5RY | B15 |
| 132VU | PASSENGER SIGNS/SEAT BELTS & RETURN TO SEAT | 28WJ | P83 |
| 132VU | PASSENGER SIGNS/SEAT BELT & | 29WJ | P82 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| | RETURN TO SEAT | | |
| 132VU | PASSENGER SIGNS/SEAT BELTS | 30WJ | P81 |
| 132VU | PASSENGER SIGNS/NO SMOKING | 31WJ | P80 |

(2)Make certain that ON-ARM-DISARM switch (22WL) on panel 436VU is in DISARM position.
(3)Make certain that EMERG pushbutton switch (28WL) on panel 818VU is in OFF position.
(4)Remove partitions (Ref. 25-26-00, P. Block 1).
(5)Remove passenger service units (Ref. 25-25-00, P. Block 1).
(6)Remove fluorescent lighting covers (Ref. 25-23-63, P. Block 401).
(7)Open doors of compartments to be removed and doors of adjacent compartments.
(8)Remove electronic control box (Ref. 49-61-11, P. Block 401).

B. Removal (Ref. Fig. 401)
(1)Remove stowage compartment doors.
NOTE : It is not necessary to remove door before removing compartment.
(a)Remove screws (1) and washers (2).
(b)Remove screws (3).
(c)Remove eccentric bolts (4) and doors (5).
(2)Replace hinge arm bolts (1) in case of damage. Apply Mat. No. 08-007 to threads of new bolts (Ref. Fig. 402).

| OLD P/N | TORQUE VALUE |
|---|---|
| A2528821920400 | 0.23 m.daN (20 lbf.in.) |
| A2528821920600 | 0.23 m.daN (20 lbf.in.) |
| A2528821900000 | 0.23 m.daN (20 lbf.in.) |
| A2528821900200 | 0.23 m.daN (20 lbf in.) |

| NEW P/N | TORQUE VALUE |
|---|---|
| A2528821922200 | 0.37 m.daN (33 lbf.in.) |
| A2528821922400 | 0.37 m.daN (33 lbf.in.) |
| A2528821921800 | 0.37 m.daN (33 lbf.in.) |
| A2528821922000 | 0.37 m.daN (33 lbf.in.) |

R (3)Remove stowage compartment
NOTE : If more than one compartment is to be removed, mark position of each compartment.
(a)If installed at compartment, disconnect electrical connectors.
(b)Remove screws (11), washers (12) and remove funnel (13) rearwards out of griprails (14). Allow funnel to hang from suction hose (15).
(c)Remove nuts (6), washers (7, 8), screws (9) and connecting plate (10).
(d)Support stowage compartment (16) and remove lockpin (17), washer (18)

and pin (19).
(e)Remove circlip (21) and pin (22).
NOTE : At compartment row ends remove bolt (23), washers (24) and nut (25) or circlip (26) and washer (27), if fitted.
(f)Remove stowage compartment.
(Ref. Fig. 401)

**ON A/C 004-200,

(Ref. Fig. 402)

**ON A/C ALL

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

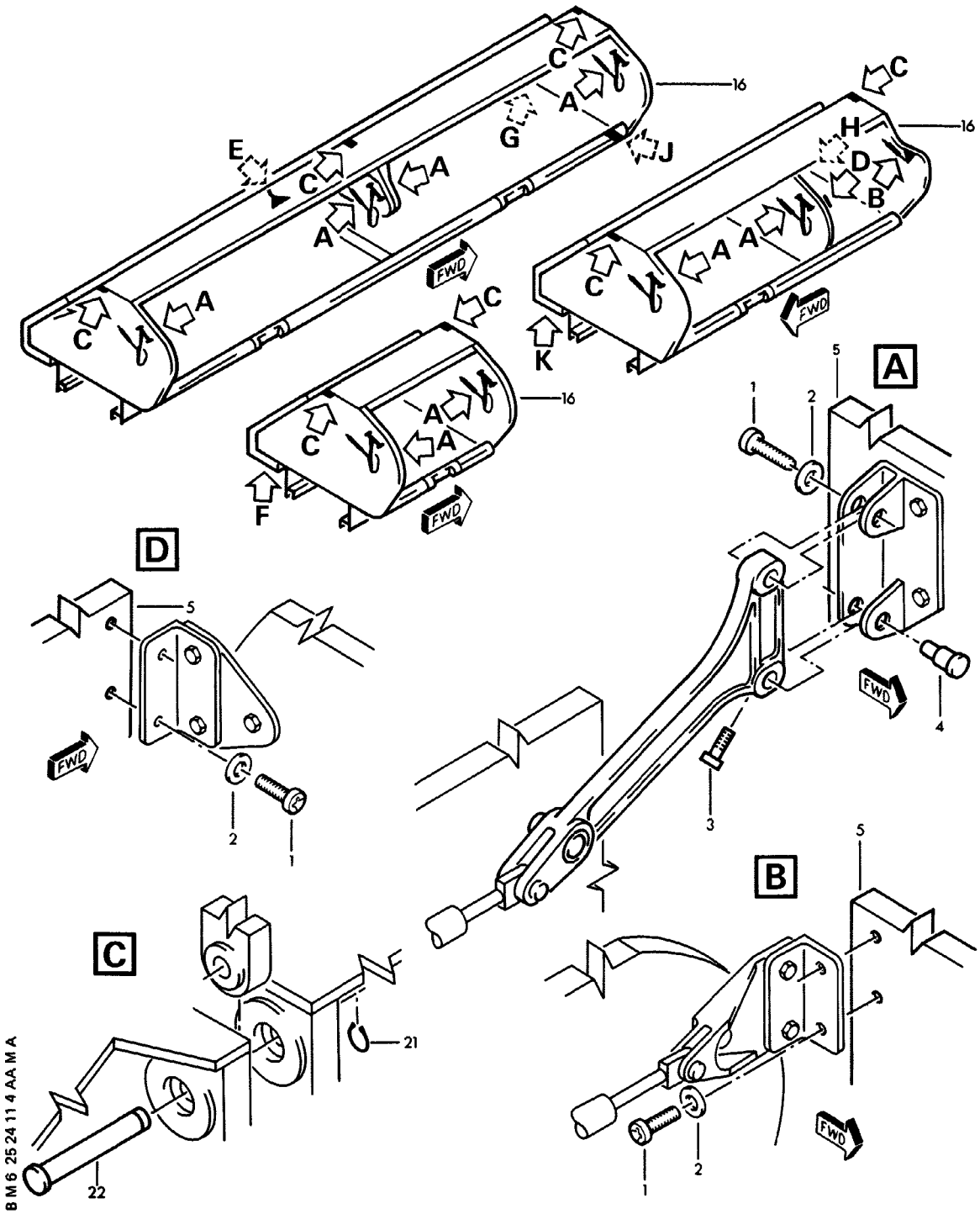
D. Installation (Ref. Fig. 401)
(1)Install stowage compartment doors:
(a)Position door (5), install eccentric bolt (4) and secure with screw (3).
(b)Install washers (2) and screws (1).

R CAUTION : IF YOU MUST REMOVE OR INSTALL A RETAINING RING, USE THE CORRECT
R PLIERS.
R INCORRECT TOOLS CAN CAUSE DAMAGE TO THE RETAINING RING.

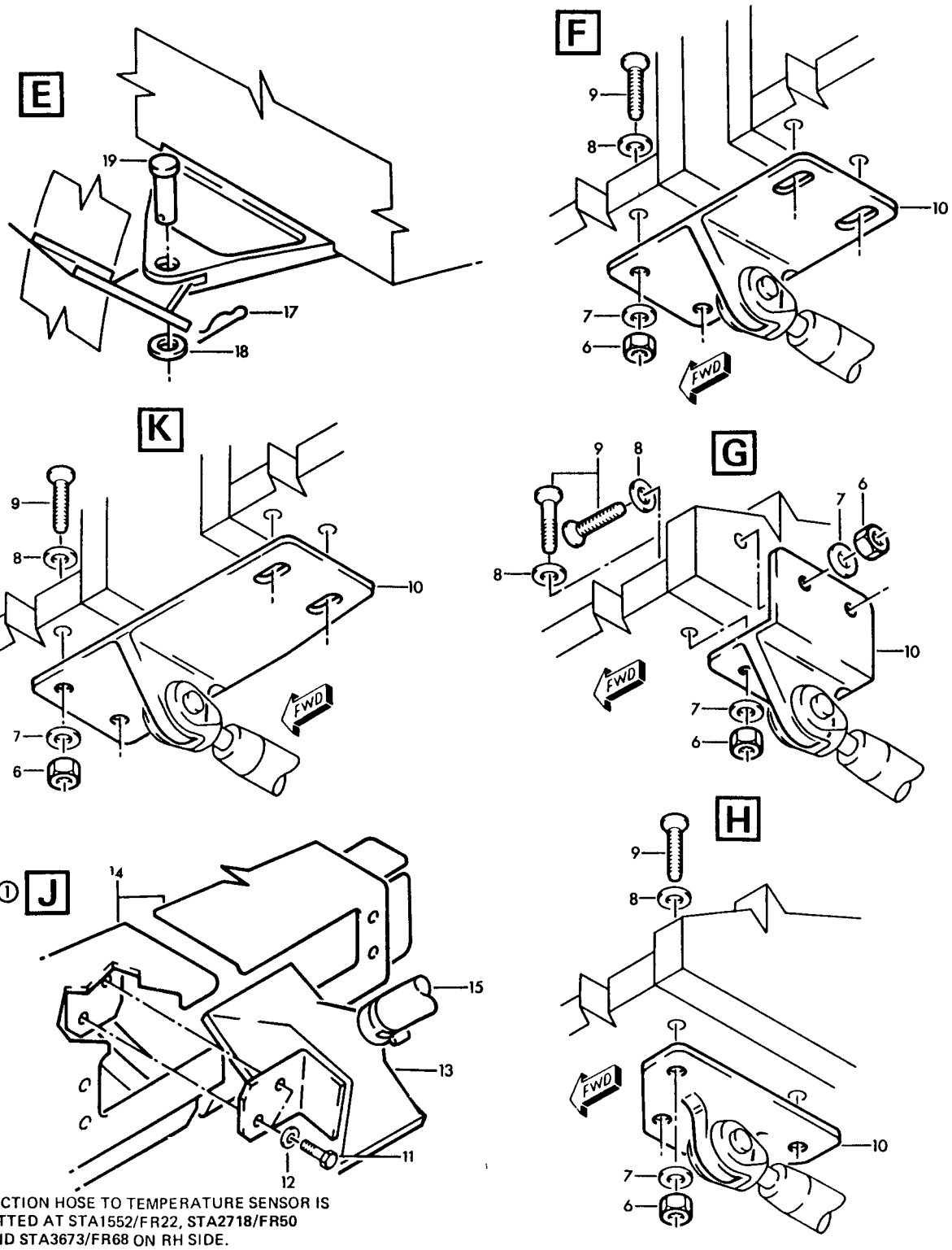
R (c)Check the stowage compartment door mechanism for presence of
R retaining ring (2) and washers (1) and install them when missing
R (Ref. Fig. 403).

(2)Install stowage compartment:
(a)Position stowage compartment (16) install pin (22) and secure with circlip (27).
(b)Install pin (19), washer (18) and lock pin (17).
(c)Install connecting plate (10) and secure with screws (9), washers (7, 8) and nuts (6).
(d)Position funnel (13) in griprails (14).
(e)Install screws (11) and washers (12).
(f)If installed at compartment, connect electrical connectors.
(g)Install passenger service units (Ref. 25-25-00, P. Block 1).
(h)Install fluorescent lighting covers (Ref. 25-23-63, P. Block 401).
(j)Install partitions (Ref. 25-26-00, P. Block 1).
(k)Install electronics control box (Ref. 49-61-11, P. Block 401).

E. Test
(1)Adjust door (Ref. 25-24-00, P. Block 501).
(2)Carry out the following operational tests:
(a)Passenger address system (Ref. 23-31-00, P. Block 501).




Stowage Compartments
Sheet 1/2
Figure 401

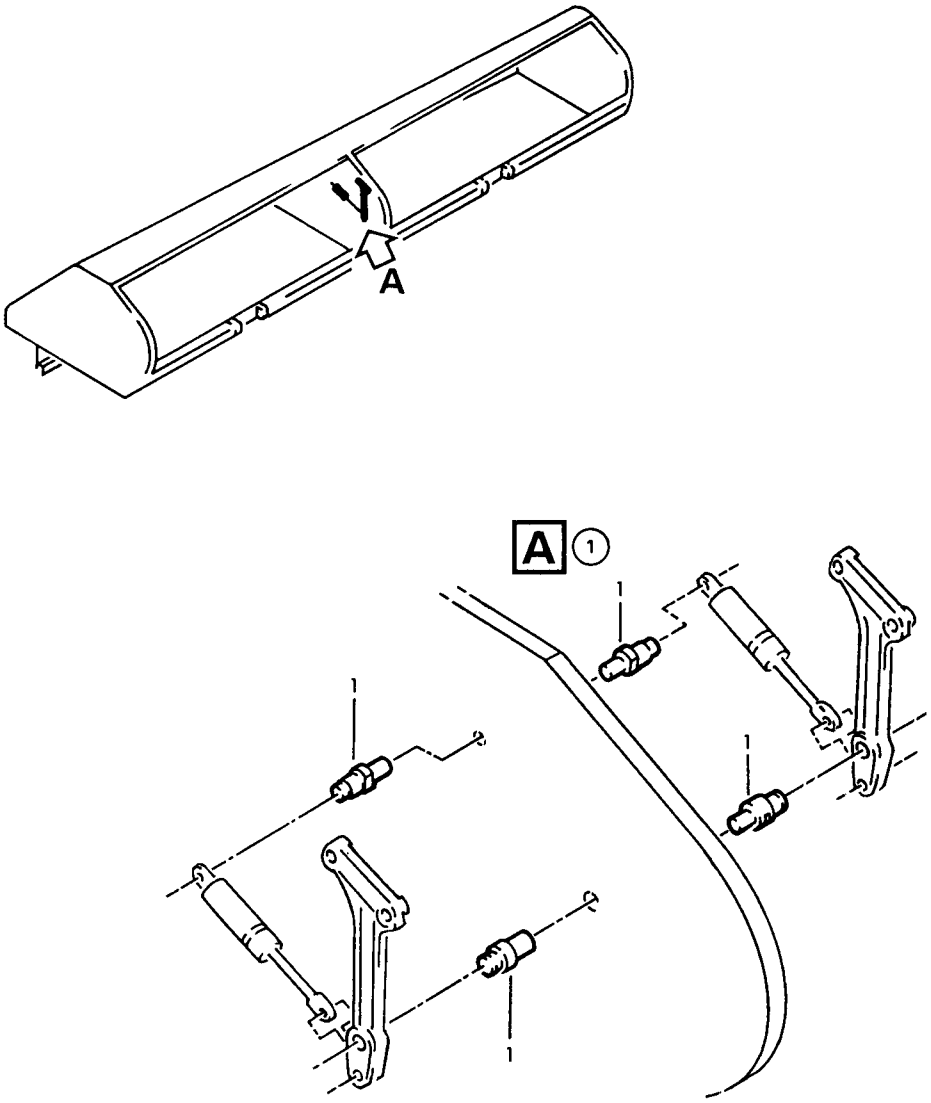



BM6 25 24 11 4 AAMM 02

① SUCTION HOSE TO TEMPERATURE SENSOR IS FITTED AT STA1552/FR22, STA2718/FR50 AND STA3673/FR68 ON RH SIDE.

Stowage Compartments
Sheet 2/2
Figure 401

R



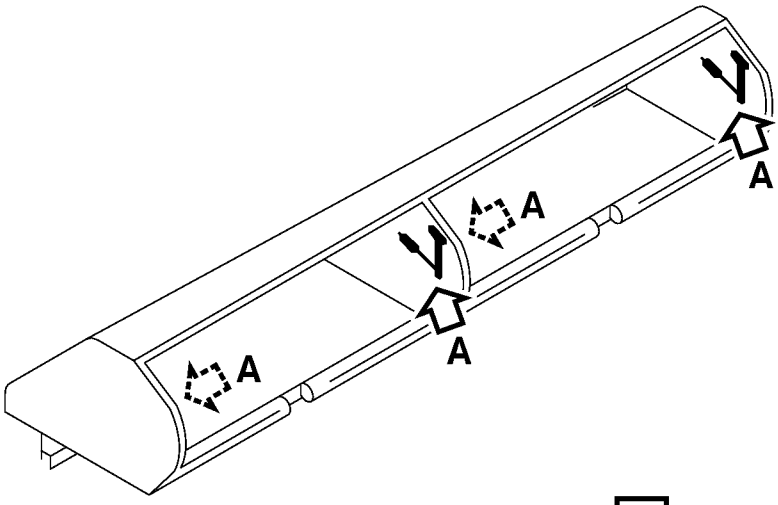

NOTE: (1) TORQUE WITH APPLICABLE VALUES

BM6 25 24 11 4 ACMO 00

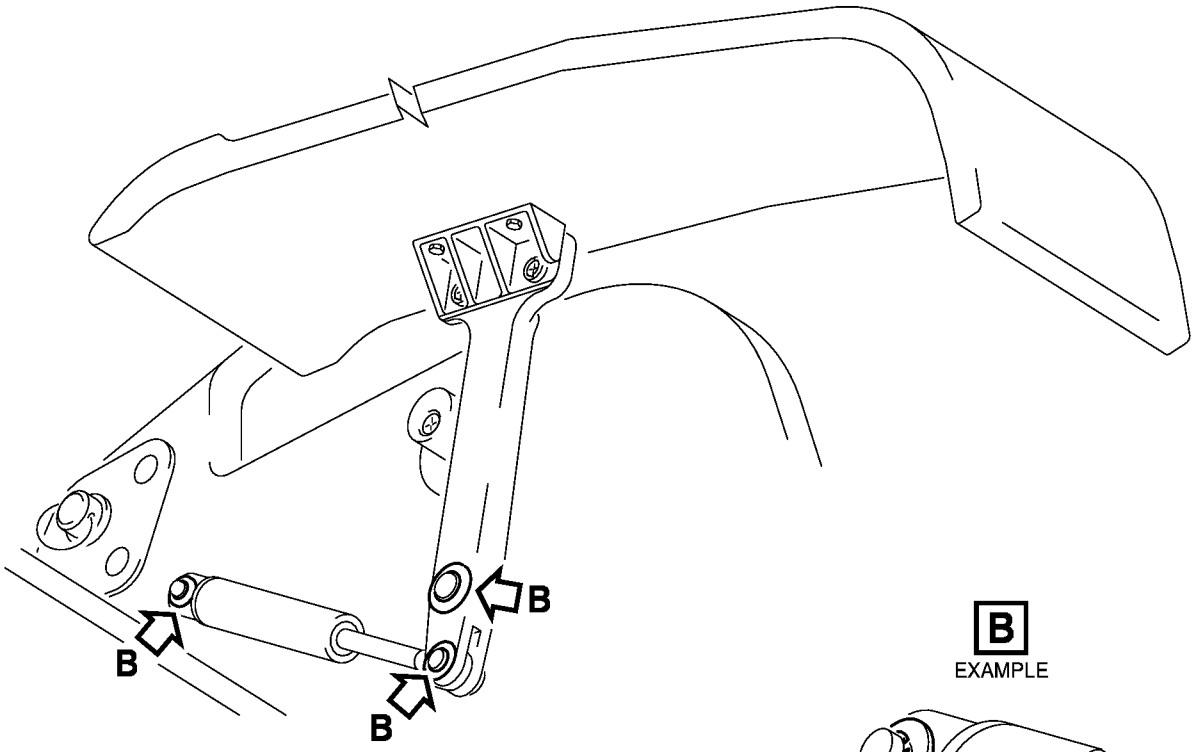
Hinge Arm Bolts
Figure 402

(b)General illumination (Ref. 33-21-00, P. Block 501).
(c)Call system (Ref. 33-23-00, P. Block 501).
(d)Passenger reading lights (Ref. 33-25-00, P. Block 501).
(e)Passenger lighted signs (Ref. 33-26-00, P. Block 501).
(f)Passenger oxygen system (Ref. 35-21-00, P. Block 501).

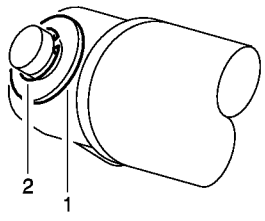
F. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.




A
EXAMPLE




B
EXAMPLE

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Stowage Compartments - Door Mechanism
Figure 403

R

## CENTER OVERHEAD STOWAGE COMPARTMENT
## REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Blanking Caps and Plugs |
| C. 98A25207503000 | Pulley Assembly - Sealing Cord |

Referenced Procedures

| | |
|---|---|
| R - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 23-31-00, P. Block 501 | Passenger Address System |
| - 23-36-11, P. Block 401 | Video Projector |
| - 23-36-13, P. Block 401 | Video Monitor |
| - 25-24-00, P. Block 501 | Overhead Stowage Compartment |
| - 25-25-00, P. Block 1 | Passenger Service Units |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 33-21-00, P. Block 501 | General Illumination |
| - 33-23-00, P. Block 501 | Call System |
| - 33-25-00, P. Block 501 | Passenger Reading Lights |
| - 33-26-00, P. Block 501 | Passenger Lighted Signs |
| - 35-21-00, P. Block 501 | Passenger Oxygen System |

### 2. Procedure

A. Job Set-Up

(1)Open, safety and tag the following circuit breakers:

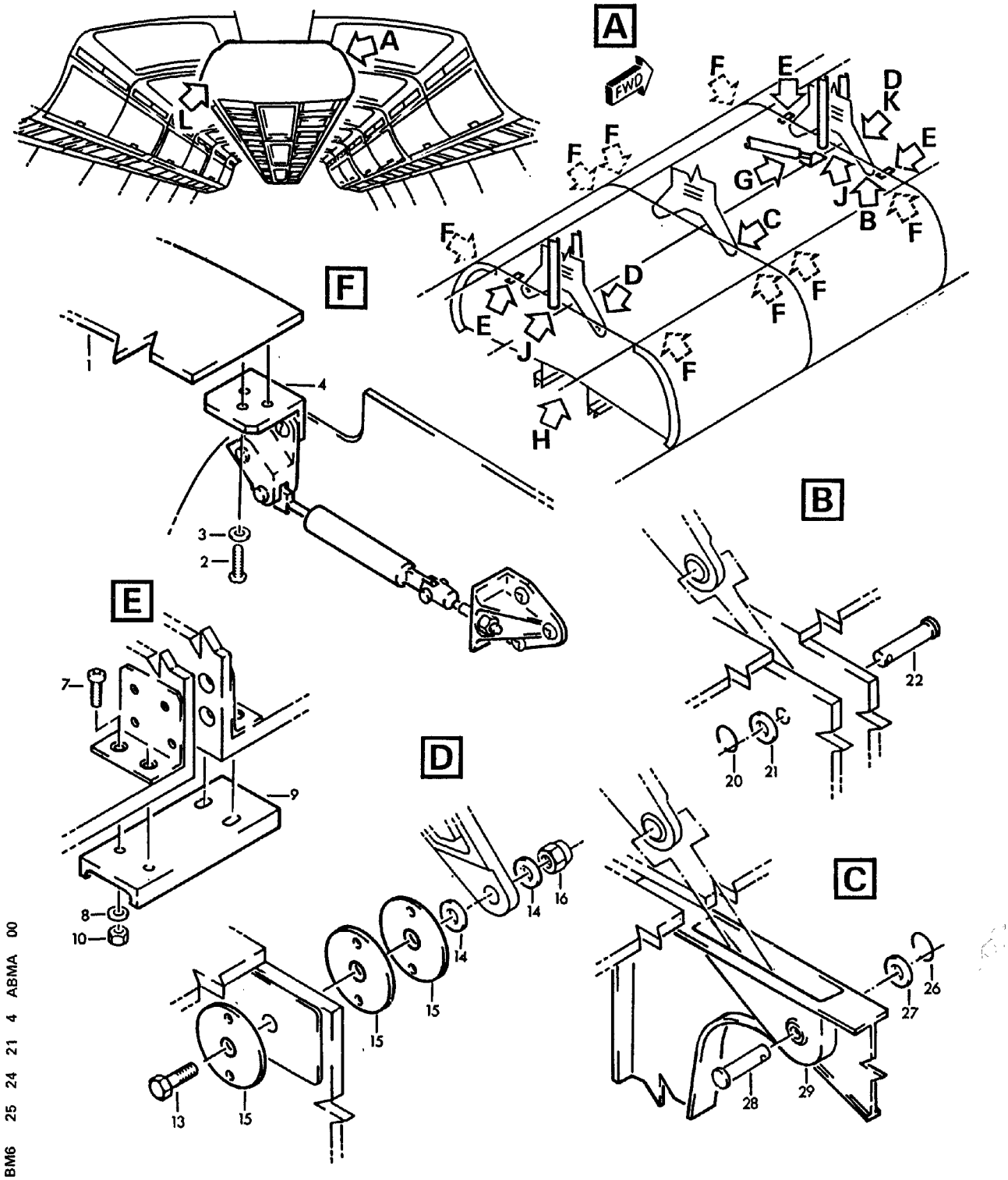
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COM PASSENGER ADDRESS | 5RY | B15 |
| 22VU | PASSENGER OXYGEN/CTL & WARN | 1WR | H24 |
| 132VU | PASSENGER SIGNS/SEAT BELTS & RETURN TO SEAT | 28WJ | P83 |
| 132VU | PASSENGER SIGNS/SEAT BELTS & RETURN TO SEAT | 29WJ | P82 |
| 132VU | PASSENGER SIGNS/SEAT BELTS | 30WJ | P81 |
| 132VU | PASSENGER SIGNS/NO SMOKING | 31WJ | P80 |
| 800VU | CABIN LIGHT POWER/CTR HATRACK | 960LG | A 7 |
| 800VU | CABIN LIGHT POWER/CTR HATRACK | 961LG | A 8 |
| 800VU | READING LIGHTS | 3LW | C 3 |
| 800VU | READING LIGHTS | 9LW | C 9 |
| 800VU | VIDEO/CONT CTR | 1MM | D 6 |
| 800VU | VIDEO/CONT CTR | 5MM | D 7 |
| 800VU | VIDEO/MON FWD | 8MM | D 8 |
| 800VU | VIDEO/MON FWD | 4MM | D 9 |
| 800VU | VIDEO/MON MID | 3MM | D10 |
| 800VU | VIDEO/MON MID | 7MM | D11 |
| 800VU | VIDEO/MON AFT | 6MM | D12 |
| 800VU | VIDEO/MON AFT | 2MM | D13 |

(2)Remove partitions (Ref. 25-26-00, P. Block 1).
(3)Remove passenger service units (Ref. 25-25-00, P. Block 1).
(4)Remove strut covers.
(5)Open doors of compartments to be removed and doors of adjacent compartments.
(6)Remove projectors (Ref. 23-36-11, P. Block 401) or monitors (Ref. 23-36-13, P. Block 401) mounted in center overhead stowage compartment.

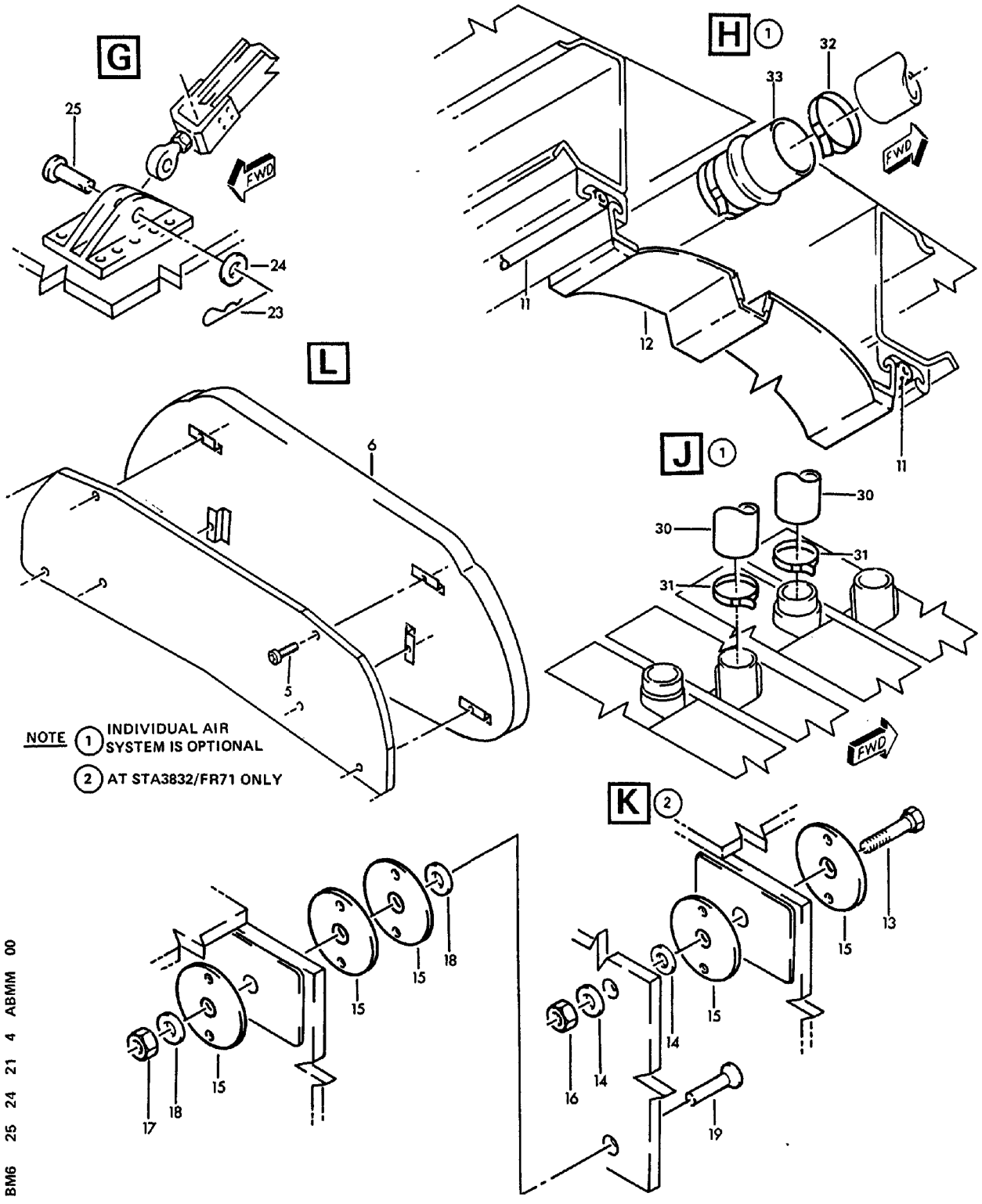
B. Removal
(Ref. Fig. 401)
NOTE : Stowage compartments are removed as a four-compartment unit.
NOTE : It is not necessary to remove door (1) before removing compartments.
(1)Remove end covers.
(a)Remove screws (5) and end cover (6).
(2)Remove doors, if necessary.
(a)Remove attachments screws (2) and washers (3) from hinge (4) and remove door (1).
(3)Remove compartments (Ref. Fig. 401).
NOTE : Before removing compartments between STA3620 (FR67) and STA3938 (FR73), the forward/aft adjacent compartments must be removed.
(a)Remove screws (7), washers (8), nuts (10) and detach connecting plates (9) between compartments.
(b)Remove mounting seals (11) from securing rails and remove covers (12).
(c)Disconnect electrical connectors in service channel.
(d)Remove clamps (31, 32) and disconnect conditioned air lines (30, 33).
(e)At end of compartment unit remove bolts (13), washers (14), shims (15) and nuts (16).
NOTE : Record and retain shims (15) if fitted.
(f)At STA3832 (FR71) remove nuts (17), washers (18), shims (15) and bolts (19).
(g)Remove safety rings (20), washers (21) and bolts (22).
(h)Remove springclip (23), washer (24) and bolt (25).
(j)Support compartment, remove safety rings (26), washers (27), bolts (28) and compartment (29).
NOTE : If more than one compartment unit is to be removed, mark location of each compartment.

R C. Preparation for Installation
R (1)Make certain that placards on replaced or repaired components are in
R correct position and in good condition.
R (2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

R D. Installation (Ref. Fig. 401)
(1)Install compartments.
NOTE : Compartments between STA3620(FR67) and STA3938(FR73) must be installed first.
NOTE : Install compartments at marked positions.
(a)Position compartment.
(b)Install bolts (28), washers (27) and safety rings (26).




Center Overhead Stowage Compartment
Sheet 1/2
Figure 401




Center Overhead Stowage Compartment
Sheet 2/2
Figure 401

(c)At STA3832(FR71) install bolts (19), shims (15), washers (18) and nuts (17).
(d)At end of compartment row install bolts (13), washers (14), nuts (16) and shims (15) if fitted.
(e)Install bolt (25), washer (24) and springclip (23).
(f)Install bolts (22), washers (21) and safety rings (20).
(g)Connect conditioned air lines (33, 30) and install straps (32, 31).
NOTE : Individual air system is optional.
(h)Connect electrical connectors in service channels.
(j)Position cover (12) and press into securing rails.
(k)Position mounting seals (11) in securing rail.
(l)Roll in mounting seals by moving pulley assy. P/N 98A25207503000 backwards and forwards.
NOTE : Rolling in mounting seals in one direction only causes them to contract. In this case covers are not fixed correctly. Make certain that abutments of mounting seals do not align with joints between covers.
(m)Install lower connecting plates (9), screws (7), washers (8) and nuts (10).

(2)Install end covers.
(a)Open stowage compartment doors.
(b)Position end covers (6) and install screws (5).

(3)Install doors, if removed.
(a)Position door (1) to hinges (4).
(b)Install screws (2) and washers (3).

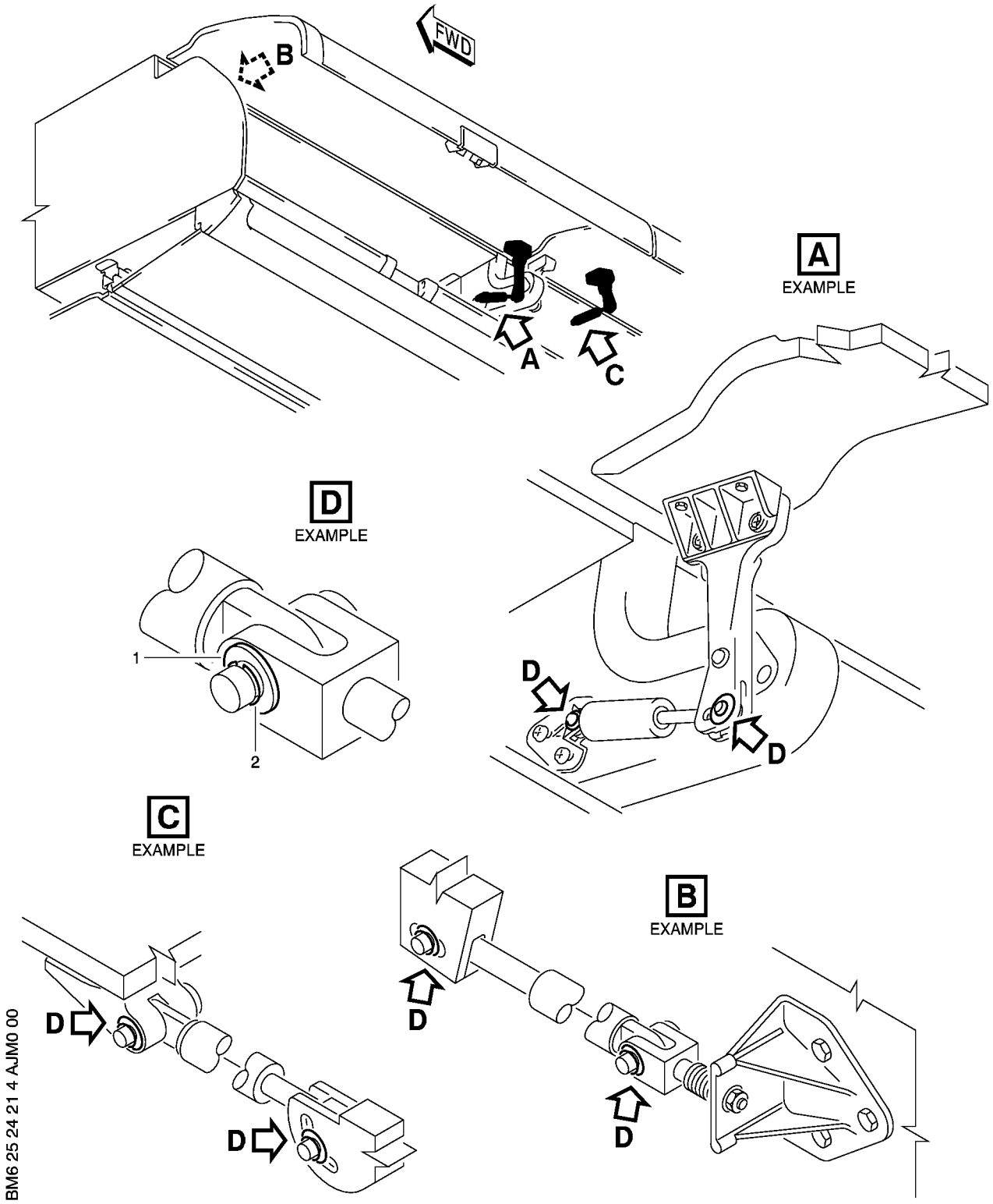
R CAUTION : IF YOU MUST REMOVE OR INSTALL A RETAINING RING, USE THE
R CORRECT PLIERS.
R INCORRECT TOOLS CAN CAUSE DAMAGE TO THE RETAINING RING.

R (c)Check the stowage compartment door mechanism for presence of
R retaining rings (2) and washers (1) and install them when missing
R (Ref. Fig. 402).

(4)Install passenger service units (Ref. 25-25-00, P. Block 1).
(5)Install projectors (Ref. 23-36-11, P. Block 401) or monitors (Ref. 23-36-13, P. Block 401) mounted in center overhead stowage compartment.

E. Test
(1)Adjust door (Ref. 25-24-00, P. Block 501).
(2)Carry out the following functional tests:
(a)Passenger address system (Ref. 23-31-00, P. Block 501).
(b)Video projector (Ref. 23-36-11, P. Block 401) or video monitor (Ref. 23-36-13, P. Block 401).
(c)General illumination (Ref. 33-21-00, P. Block 501).
(d)Passenger attendant call (Ref. 33-23-00, P. Block 501).
(e)Passenger reading light (Ref. 33-25-00, P. Block 501).
(f)Passenger lighted signs (Ref. 33-26-00, P. Block 501).
(g)Passenger oxygen system (Ref. 35-21-00, P. Block 501).

F. Close-Up
(1)Install partitions (Ref. 25-26-00, P. Block 1).
(2)Install strut covers.
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.




Stowage Compartments - Door Mechanism
Figure 402

R

# PASSENGER SERVICE UNITS - DESCRIPTION AND OPERATION

1. General

The passenger service and information units are installed in the service channel paneling above the seat rows. The various units comprising the PSU are of different lengths and widths to suit aircraft furnishing configurations.

NOTE : For description and operation of PSU installed in front and aft lavatories refer to 25-40-00.

2. Description and Operation (Ref. Fig. 001, 002)

A. The following major units are available for use as passenger service and information units. The description and operation of these units is included in the referenced chapters.

(1) Information panel (loud speaker Ref. 23-31-00 and NO SMOKING, FASTEN SEAT BELT signs Ref. 33-26-00).

(2) Attendant call panel with reading light switches if fitted (Ref. 33-23-00 and 33-24-00).

(3) Attendants reading light panel (Ref. 33-27-00).

(4) Passenger reading light panel (Ref. 33-25-00).

(5) Emergency oxygen container (Ref. 35-21-00).

(6) Individual air outlet panel. Same basic panel as reading light panels but containing air outlets instead of reading lights.

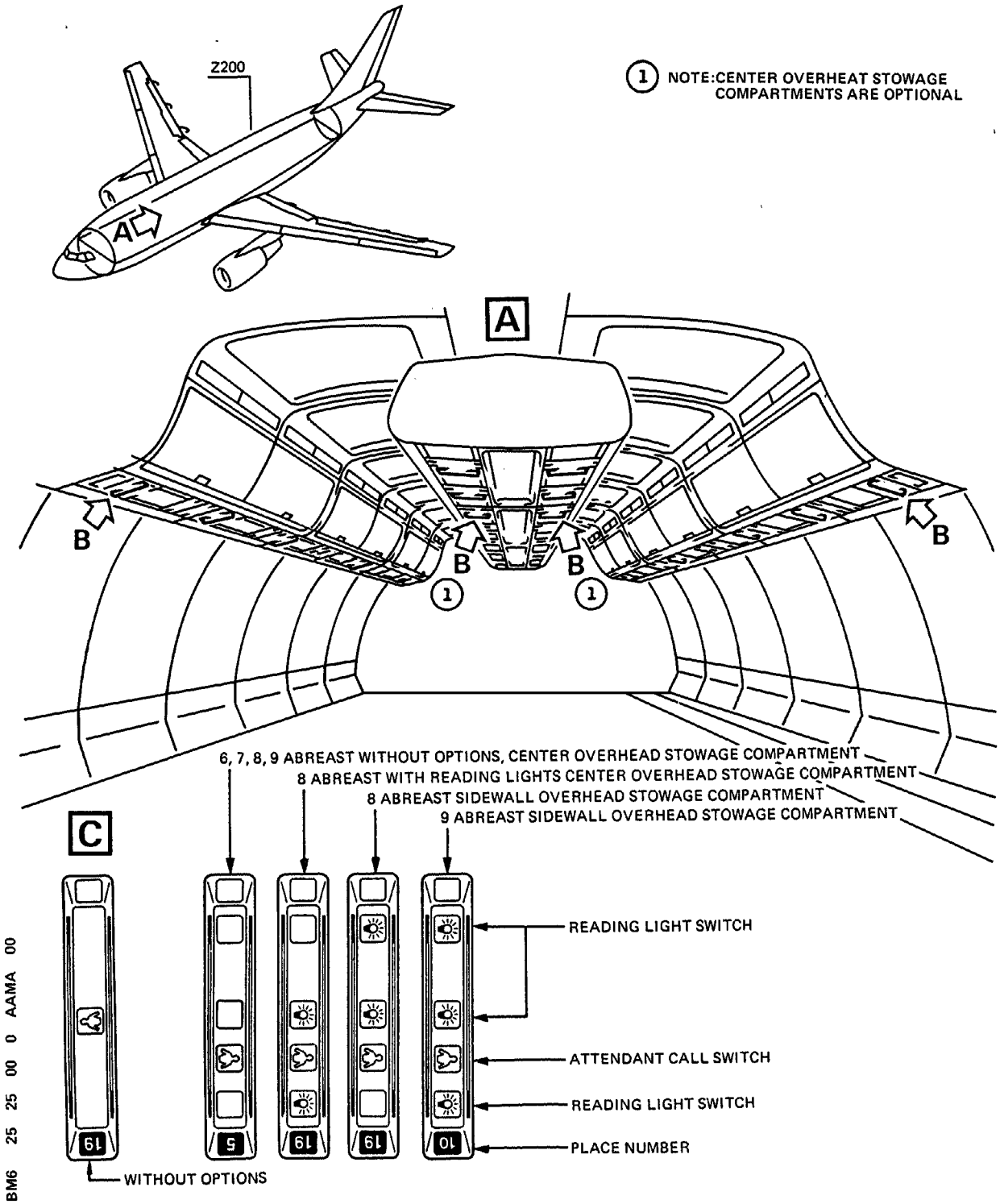
B. Various types and sizes of spacing panels are fitted to the service channel rails between the major units, depending on seating configurations. All panels are of moulded plastic construction.

(1) Clamping panels.
These panels are of varying sizes and contain clamping devices that permit the panel to be locked against the service channel rails.

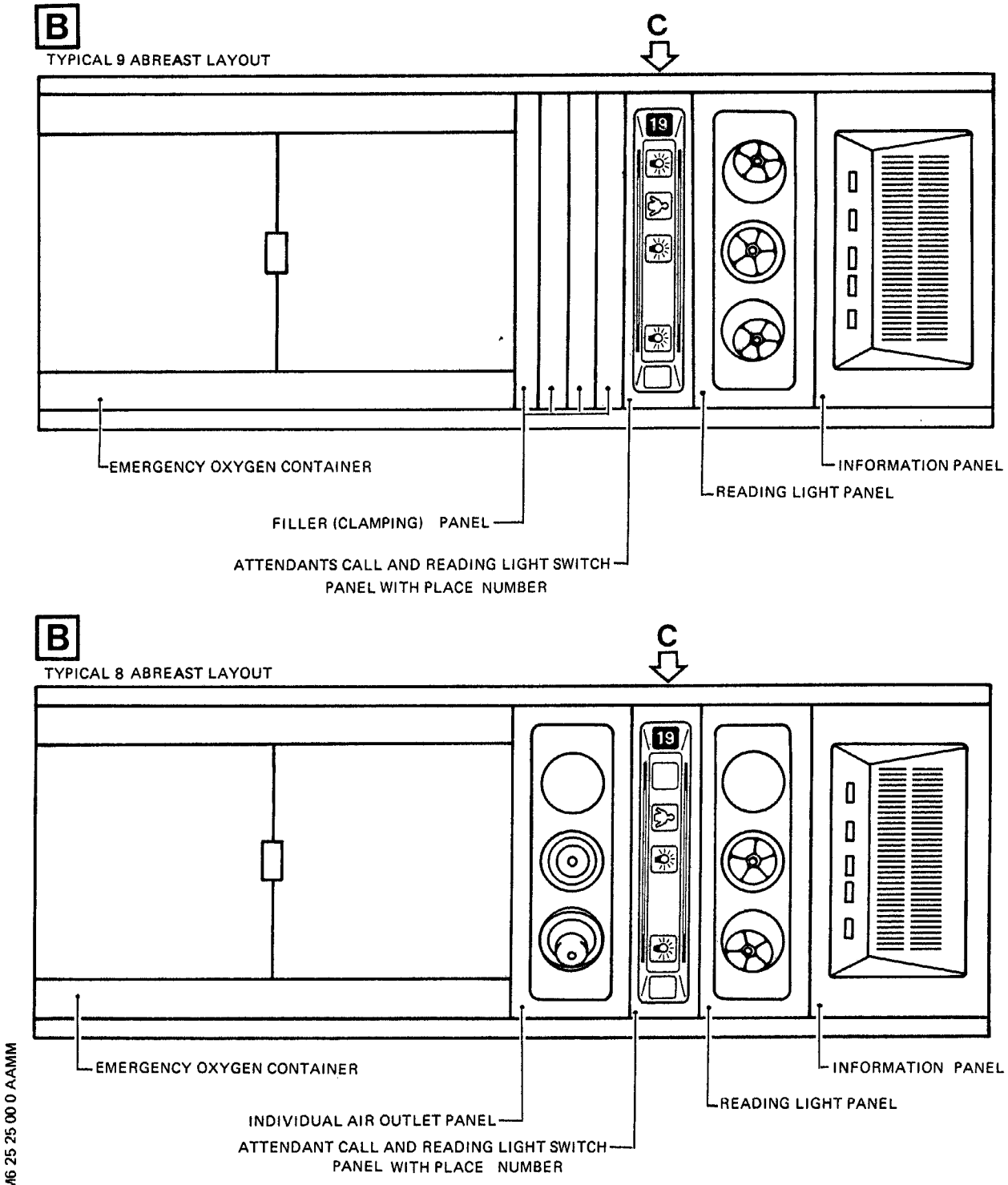
(2) Filler panels.
Similar to clamping panels but contain no clamping devices.

(3) Partition panels.
Partition panels are clamping panels that contain moulded holes to locate partitions in the passenger compartment.

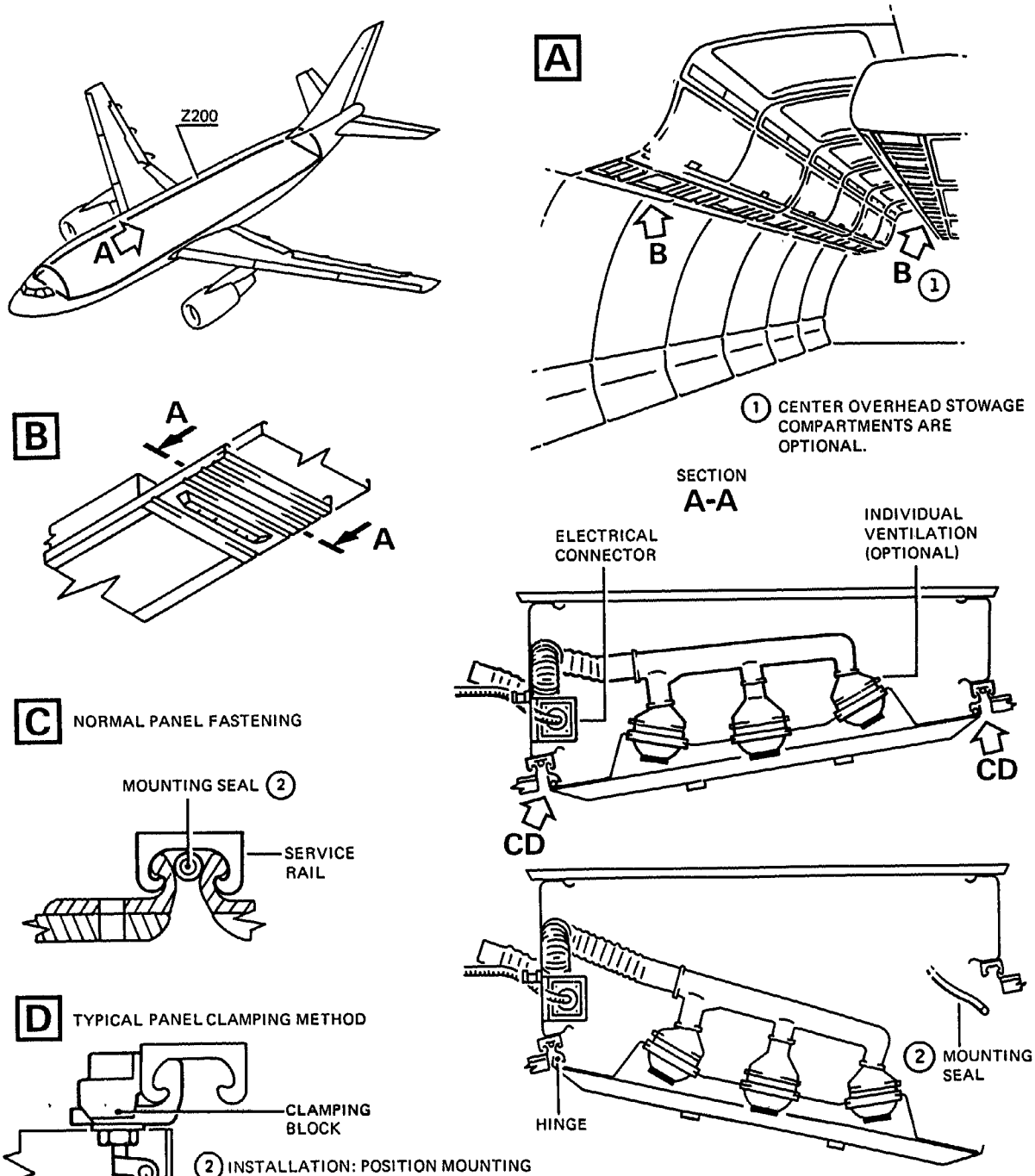
(4) Place number panels.
These are filler panels containing seat position numbering.




Typical Layout of Passenger Service Units
sheet 1/2
Figure 001




Typical Layout of Passenger Service Units
sheet 2/2
Figure 001

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Typical PSU Panel Attachment
Figure 002

1. GENERAL

(Ref. Fig. 201)

The passenger service units (PSU) may be fitted in various positions to match the required cabin seating arrangement.

When the passenger seat pitch is altered, the corresponding PSU must be repositioned in order to relocate the various services within easy reach of the passenger.

When relocating the various PSUs, make certain that the emergency oxygen container is placed in such a position that the oxygen mask will fall within easy reach of the passenger when the emergency oxygen system is activated.

NOTE : 1 Ensure that a gap of 2.0 +0.0 -0.5 mm (0.0787 +0.0000 -0.0196 in.) maintained between edge of emergency oxygen container and adjacent panels.

2 Maximum distance between emergency oxygen container center line and seat reference line must not exceed 533.4 mm (21.0 in.) (Based on 812.8 mm, 32.0 in. seat pitch).

A. Passenger Service Units Location Requirements

(Ref. Fig. 201)

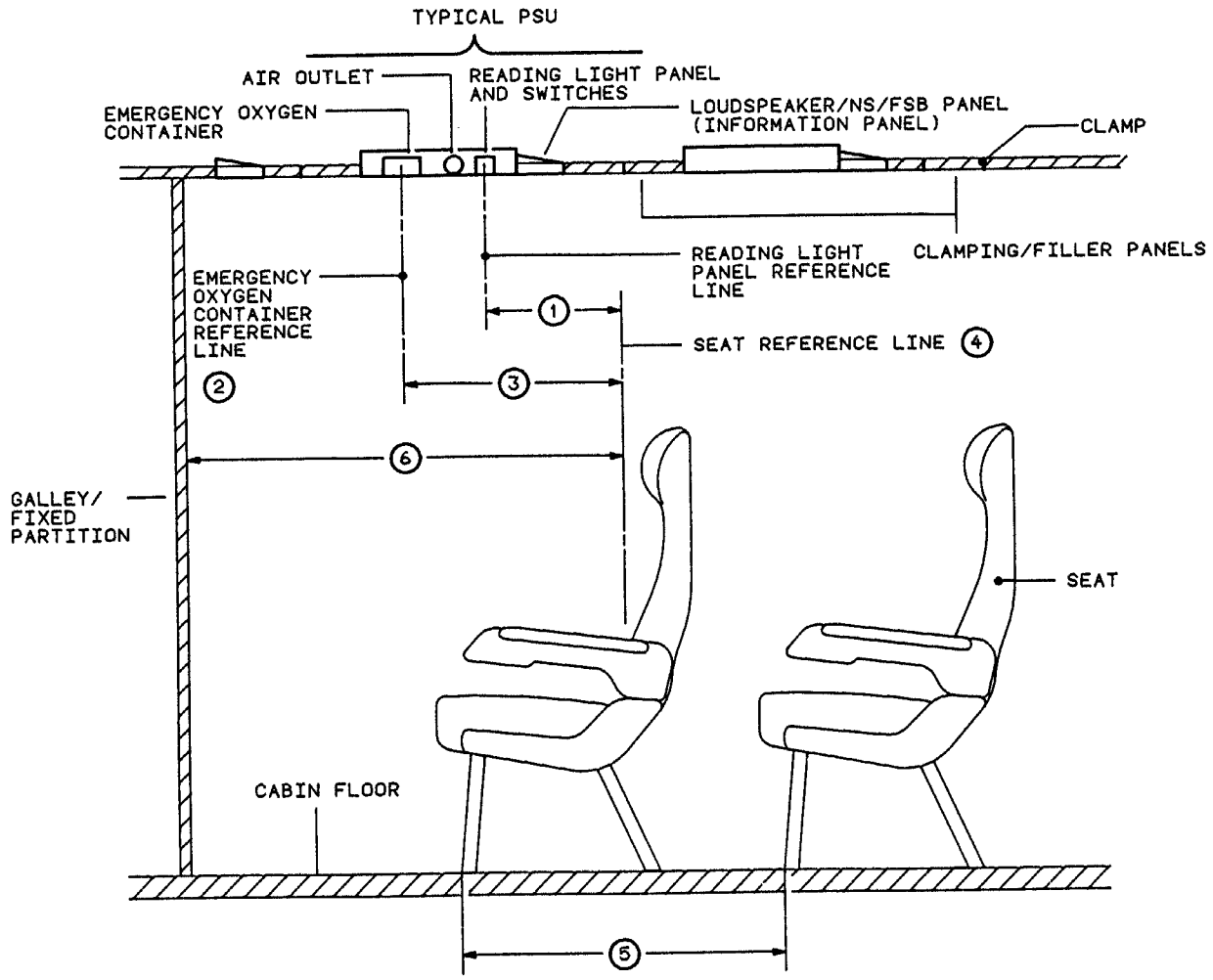
(1) PSUs can be installed at 25.4 mm (1.0 in.) increments in any position along the overhead stowage extrusion tracks, with the exception of units installed in lavatories. The position of these units is regulated by the unit hinges and cutout positions in the extrusion tracks. Additional filler panels, partition panels, place number panels and clamping panels are installed between the PSUs to give the desired pitch adjustment and cabin configuration.

Optional extras, e.g. movie monitors, can also be fitted along the overhead stowage extrusion tracks.

NOTE : For description and operation of PSU panels installed in lavatories refer to 25-40-00, P. Block 1.

(2) Relocating the PSU entails removal of the mounting seal along the center of the overhead extrusion tracks. The various clamping blocks and clamping panels must then be removed and the PSU can then slide forward or aft along the extrusion tracks to the desired location. Refitting of appropriate filler panels, clamping panels, clamping blocks and mounting seal will ensure that the PSU is maintained in its new position.

NOTE : Filler panels installed aft of every second seat must house a NO SMOKING/FASTEN SEAT BELT sign (NS/FSB) and a loudspeaker. A similar panel must be installed immediately forward of the first seat position in every seat row.




B M 6 25 25 00 2 AAMA-28

(1) DISTANCE BETWEEN CENTER OF READING LIGHT PANEL AND SEAT REFERENCE LINE (VARIABLE DEPENDANT UPON OPTIONAL EXTRAS AND SEAT CONFIGURATION SEE ALSO NOTE 3)

(2) EMERGENCY OXYGEN CONTAINER REFERENCE LINE IS TAKEN FROM ℄ OF EMERGENCY OXYGEN CONTAINER

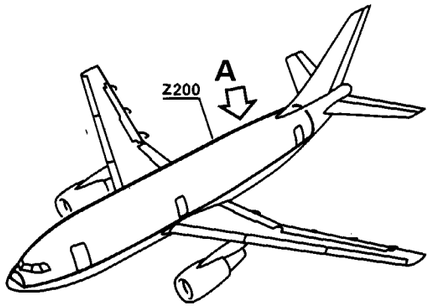
(3) DISTANCE BETWEEN EMERGENCY OXYGEN CONTAINER ℄ AND SEAT REFERENCE LINE MUST NOT EXCEED 21.0 in.,533.4 mm (BASED ON 32.0 in.,812.8mm PITCH)

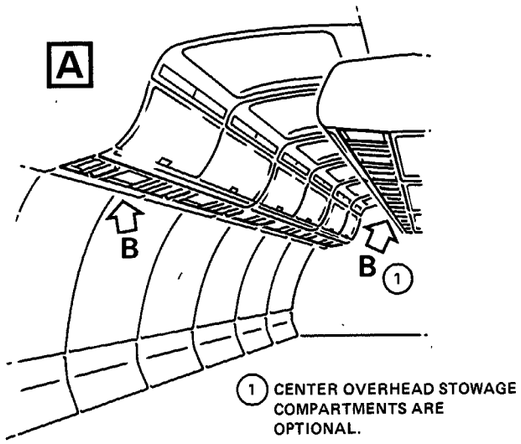
(4) SEAT REFERENCE LINE IS TAKEN FROM POINT OF CONTACT BETWEEN SEAT BACK AND SEAT CUSHION

(5) SEAT PITCH

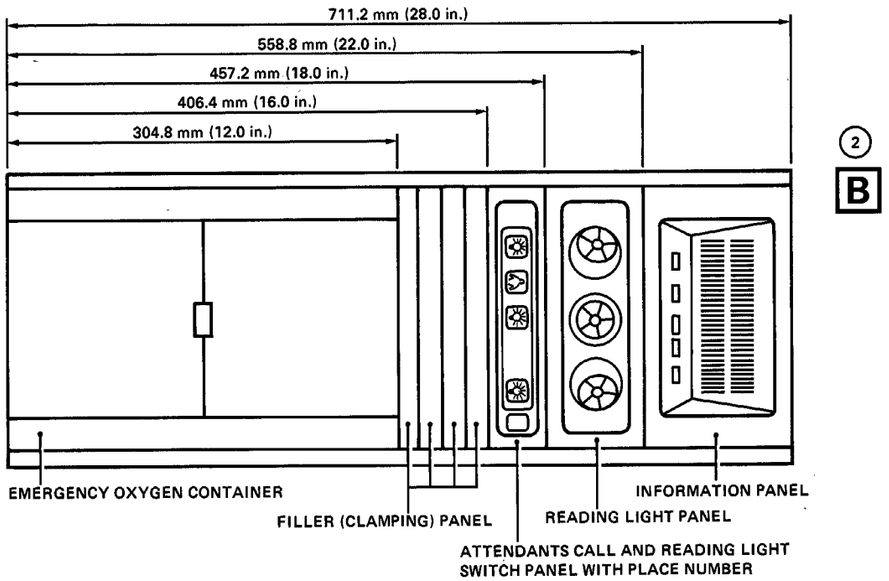
(6) DISTANCE BETWEEN GALLEY/FIXED PARTITION UNIT AND SEAT REFERENCE LINE 35.0 in.,889.0 mm (MINIMUM SAFETY REQUIREMENT)

Passenger Service Units Location Requirements
(Sheet 1/2)
Figure 201

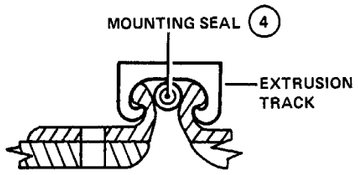


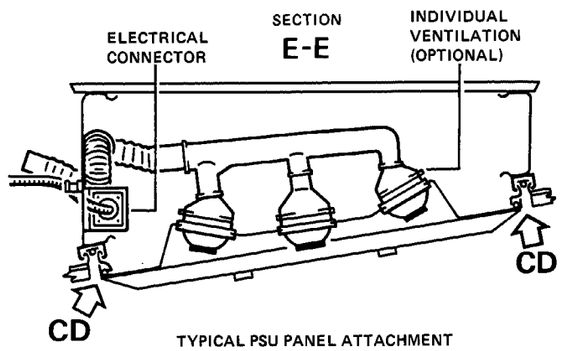




(1) CENTER OVERHEAD STOWAGE COMPARTMENTS ARE OPTIONAL.

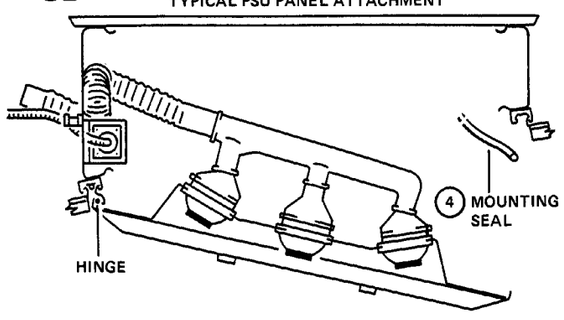



**D** NORMAL PANEL FASTENING

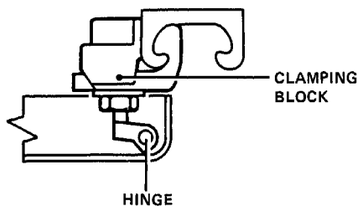



TYPICAL PSU PANEL ATTACHMENT




**C** TYPICAL PANEL CLAMPING METHOD




(4) INSTALLATION: POSITION MOUNTING SEAL IN EXTRUSION TRACK. ROLL IN MOUNTING SEAL BY MOVING PULLEY ASSEMBLY (P/N 25207503000) BACKWARDS AND FORWARDS. ROLLING MOUNTING SEALS IN ONE DIRECTION ONLY, CAUSE THEM TO CONTACT, IN WHICH CASE PSU'S ARE NOT FITTED CORRECTLY. MAKE CERTAIN THAT ABUTMENT OF MOUNTING SEALS DOES NOT ALIGN WITH JOINTS BETWEEN PANELS.




(2) ALL DIMENSIONS ARE APPROXIMATE GUIDE AND CAN BE ALTERED BY ADDITION/SUBTRACTION OF FILLER/CLAMPING PANELS TO GIVE REQUIRED CONFIGURATION.

(3) STD 12.0 in. CONTAINER SHOWN, 7.0 in. CONTAINER ALSO AVAILABLE

B M 6 25 25 00 2 AA M M-28

Passenger Service Units Location Requirements
(Sheet 2/2)
Figure 201

EFFECTIVITY: ALL

PIA

(3)If relocation of the PSUs requires removal or addition of any PSUs, the air outlet and electrical connections may also require relocation to suit the new positioning. Connections for these services are supplied along the extrusion track at 711.2 mm (28.0 in) intervals as standard.

NOTE : The relocated and/or additional PSUs must be verified to contain the correct number of oxygen masks in order to conform with the requirements of the revised seating capacity. The total number of oxygen masks should exceed the total passenger seating capacity by a minimum of 10 %.

(4)Excess length of air outlet hosing normally allows relocation of the PSU without entailing disconnection from the air supply duct; however, the hose routing and clamping may require changing. If excess length of hose will not allow relocation of PSU to the required location, the hose must then be disconnected and reconnected to the next forward or aft air supply duct outlet connection.

NOTE : All unused air supply duct outlets must be capped.

(5)Excess length of PSU electrical cables normally allows relocation of the PSU. However, the cable may require redistribution in the raceway clamps and adjustment to take up any cable slack. If the cable length will not allow the required PSU relocation, then it must be disconnected and re-connected to the next forward or aft electrical connector point.

NOTE : Refer to the appropriate removal/installation procedure for individual panels and ensure that all relevant electrical circuits are made safe prior to PSU relocation.

(6)The relocation of optional extras, e.g. movie monitors, must be made prior to the relocation of the adjacent PSU and filler panels. The best position must be obtained for the monitor prior to PSU location (e.g. every third or fourth seat for center aisle monitors).

(7)In conclusion, the following represents a reference guide when considering repositioning of PSUs

(a)Maximum distance between emergency oxygen container center line and seat reference line must not exceed 533.4 mm (21.0 in.).

(b)Maximum distance between reading light panel center line and seat reference line must be such that dimensions stated in (a) can be maintained.

(c)A NO SMOKING/FASTEN SEAT BELT sign (NS/FSB) and a loudspeaker must be incorporated at every second seat position and at the begining of every seat row.

(d)The number of oxygen masks must exceed passenger seat capacity by at least 10 %.

(e)Sufficent clamping blocks and clamping panels must be used to ensure that PSUs are correctly supported and located.

(f)All cables and hoses must be properly routed and secured. Do not overstretch. Always re-route to the nearest possible connection and secure all surplus safely.

(g)Optional movie monitors must be relocated before repositioning PSUs, in order to obtain the best compromise.

(h)All unused oxygen and air supply outlets must be capped.

(j)Ensure that mounting seal joints do not coincide with panel joints.

(k)A minimum distance of 889.0 mm (35.0 in.) must be maintained

between any fixed partition or galley unit and adjacent passenger seating position (seat reference line).

(l) Ensure that a gap of 1.5 to 2 mm (0.060-0.080 in.) is maintained between the emergency oxygen container and adjacent panels, thus assuring correct operation and mask distribution in an emergency.

# CURTAINS AND PARTITIONS - DESCRIPTION AND OPERATION

## 1. General

Partitions are provided for screening the entrance and galley areas.
Available configurations:
- first class partitions with curtains (optional).
- business class partitions with curtains (optional).
- all tourist class partitions with curtains.

## 2. Description

### A. Partitions

The partitions provide screens for entrance and galley areas. The lower attachments of all partitions are to seat tracks through tie-rods and seat track fittings.
The upper attachment of the center partitions is achieved through spigots into the ceiling structure. This connection can only be loaded horizontally. The side partitions are either attached through spigots into the sidewall overhead stowage compartment structure or with screws into the side fuselage structure.

### B. Curtains

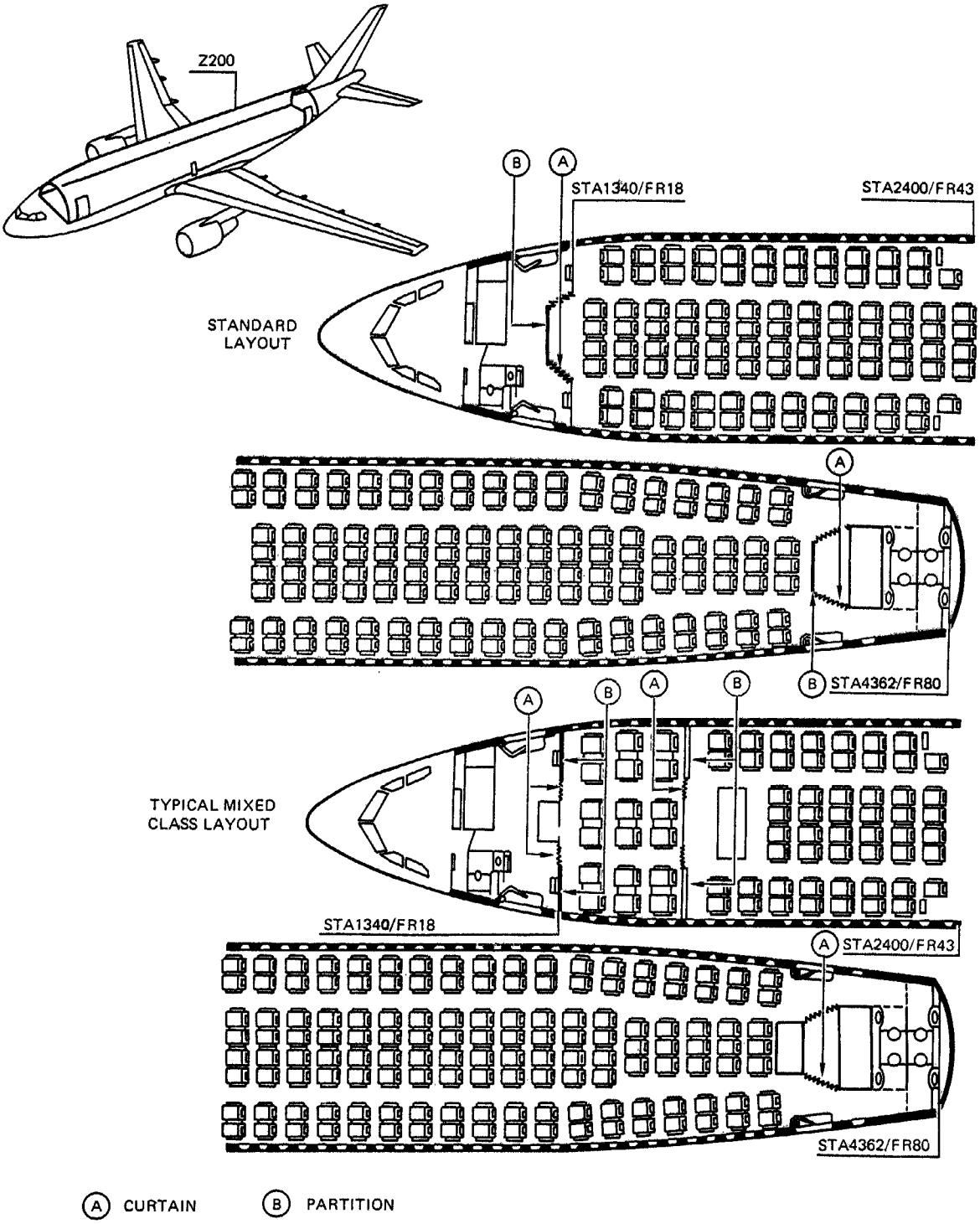
Curtains are provided between the partitions at the front entrance area, between galleys and lateral partitions, between galleys and center partitions and between galleys. The curtains are hung on aluminum curtain rails by means of hooks and slides, can be drawn open or closed as required and can be secured in the open position. The rails are attached by brackets to the partitions, stowage compartments, galleys and overhead stowage compartments.
(Ref. Fig. 001)
(Ref. Fig. 002)

R **ON A/C 101-200,

R (Ref. Fig. 003)

**ON A/C 005-100,

(Ref. Fig. 004)

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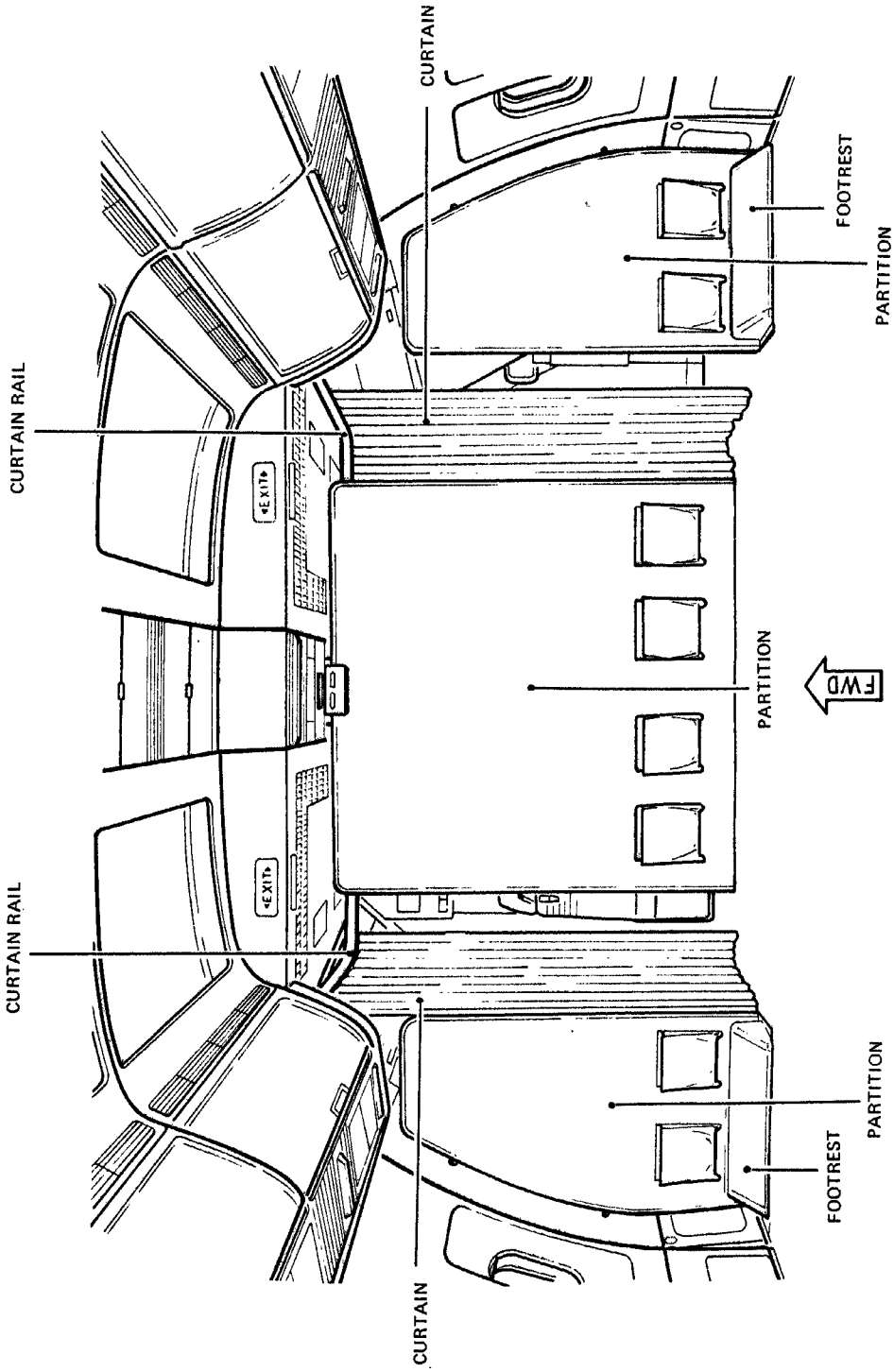
Curtains and Partitions - Typical Arrangement
(Sheet 1/2)
Figure 001

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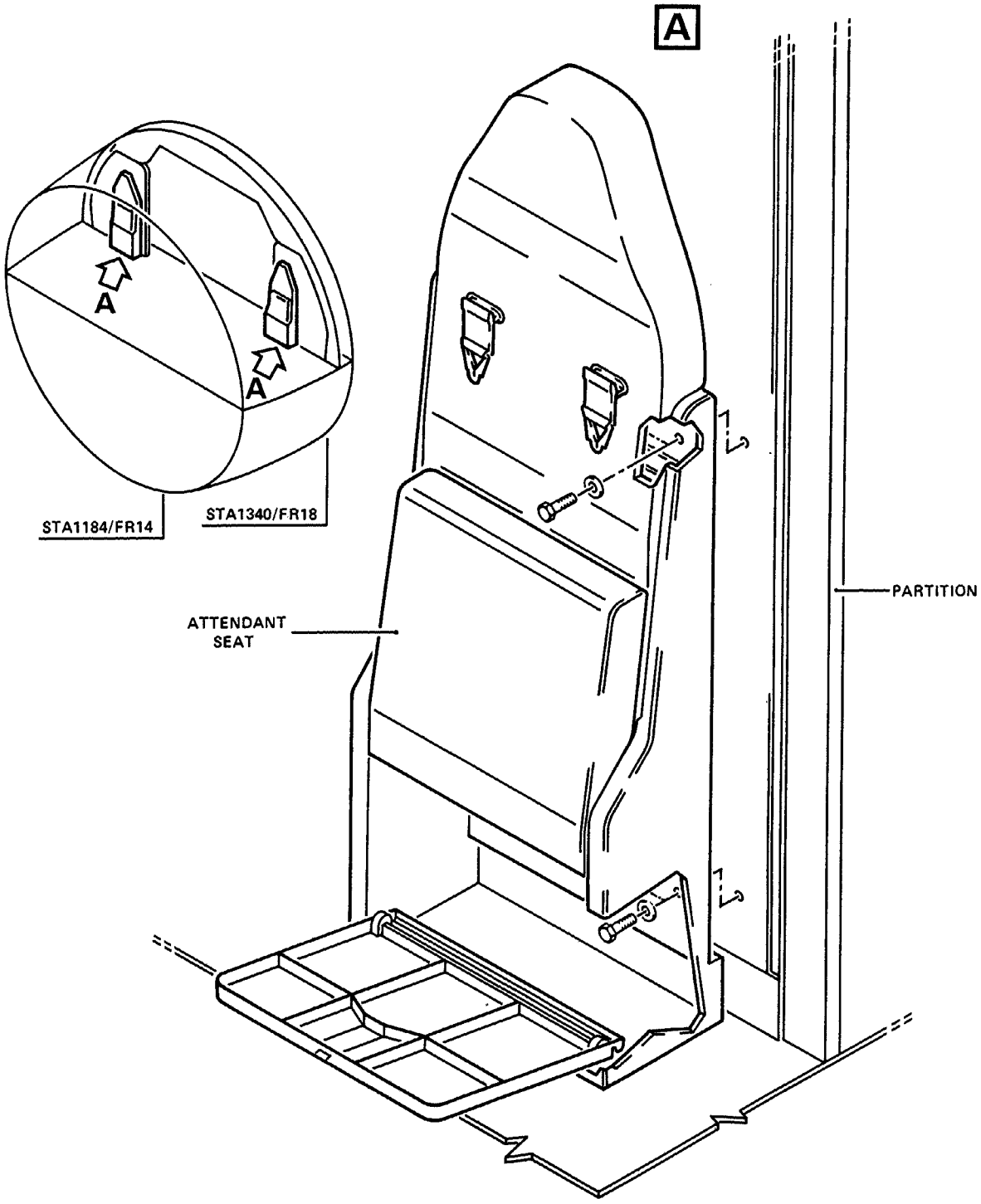
Curtains and Partitions - Typical Arrangement
(Sheet 2/2)
Figure 001

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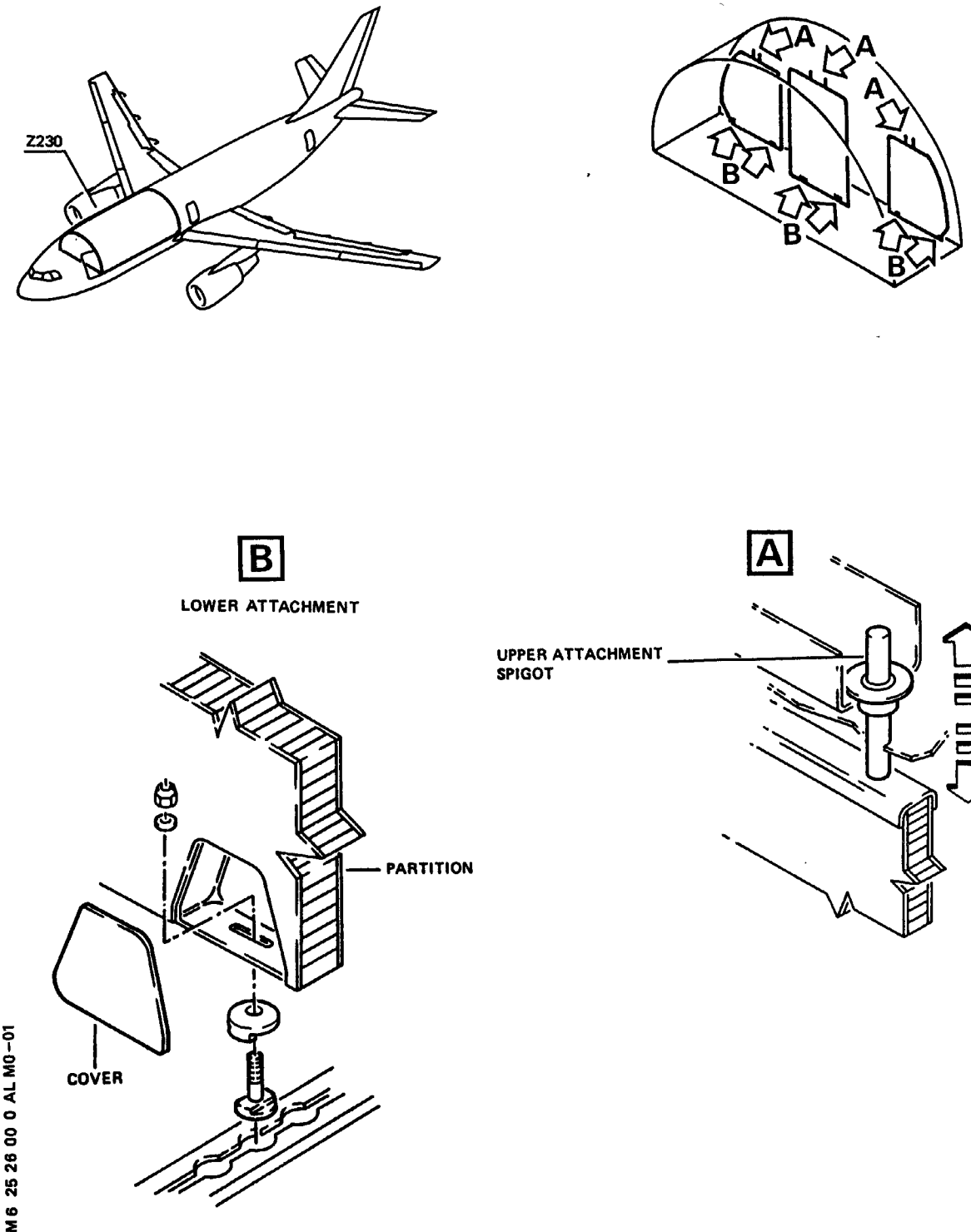
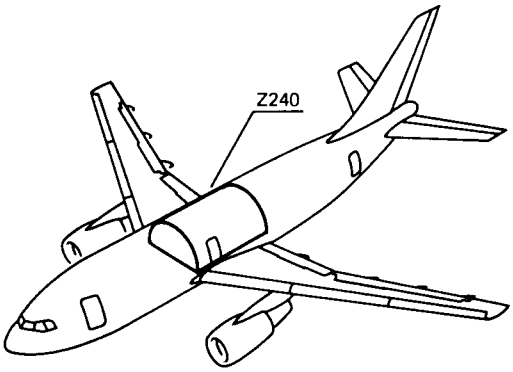
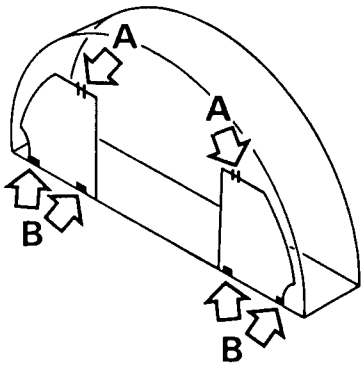
Partitions - Attachment
Figure 002

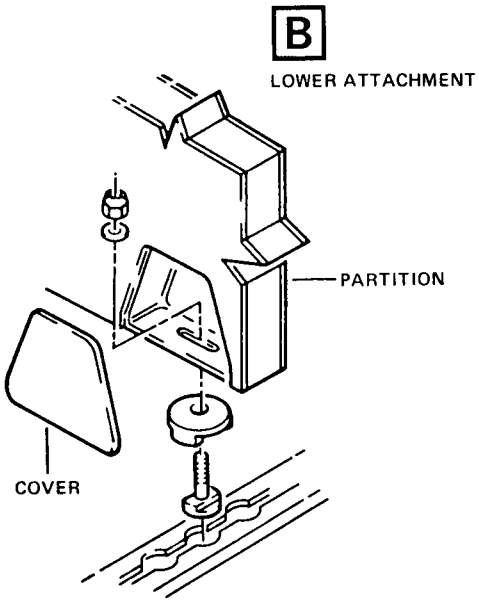



Partitions - Attachment
Figure 003

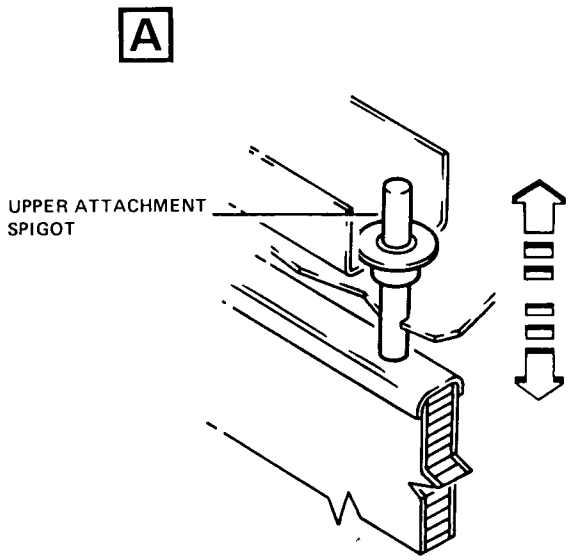
R




NOTE : ONLY FOR 3 CLASS LAYOUT

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Partitions - Attachment
Figure 004

1. General
Various types of equipment and provisions for their stowage and installation, as well as stowage rooms and wardrobes for accommodation of passenger clothing are available.

2. Description
The stowages are made of synthetic honeycomb material covered by GRP mats. Core filler is used to fill the edges, holes and recesses of the honeycomb components. The external edges are covered by aluminum profiles.
The wardrobe and stowages are attached to the seat tracks by fittings. If required, they can be additionally mounted to the center ceiling supports (when installed at CTR positions) or to the lateral support channel (when installed at lateral positions).
The doghouse and bustles are mounted to galleys, partitions and lavatories. The doghouse could be additionally attached to seat tracks by fittings.
Video monitors can be installed in the rear of one or more stowages, facing aft (Ref. 23-36-13, P. Block 401).

A. **CENTER WARDROBE** is located in the CTR seating column, and can be installed in the areas between FR18 through 28 and FR31 through 73.

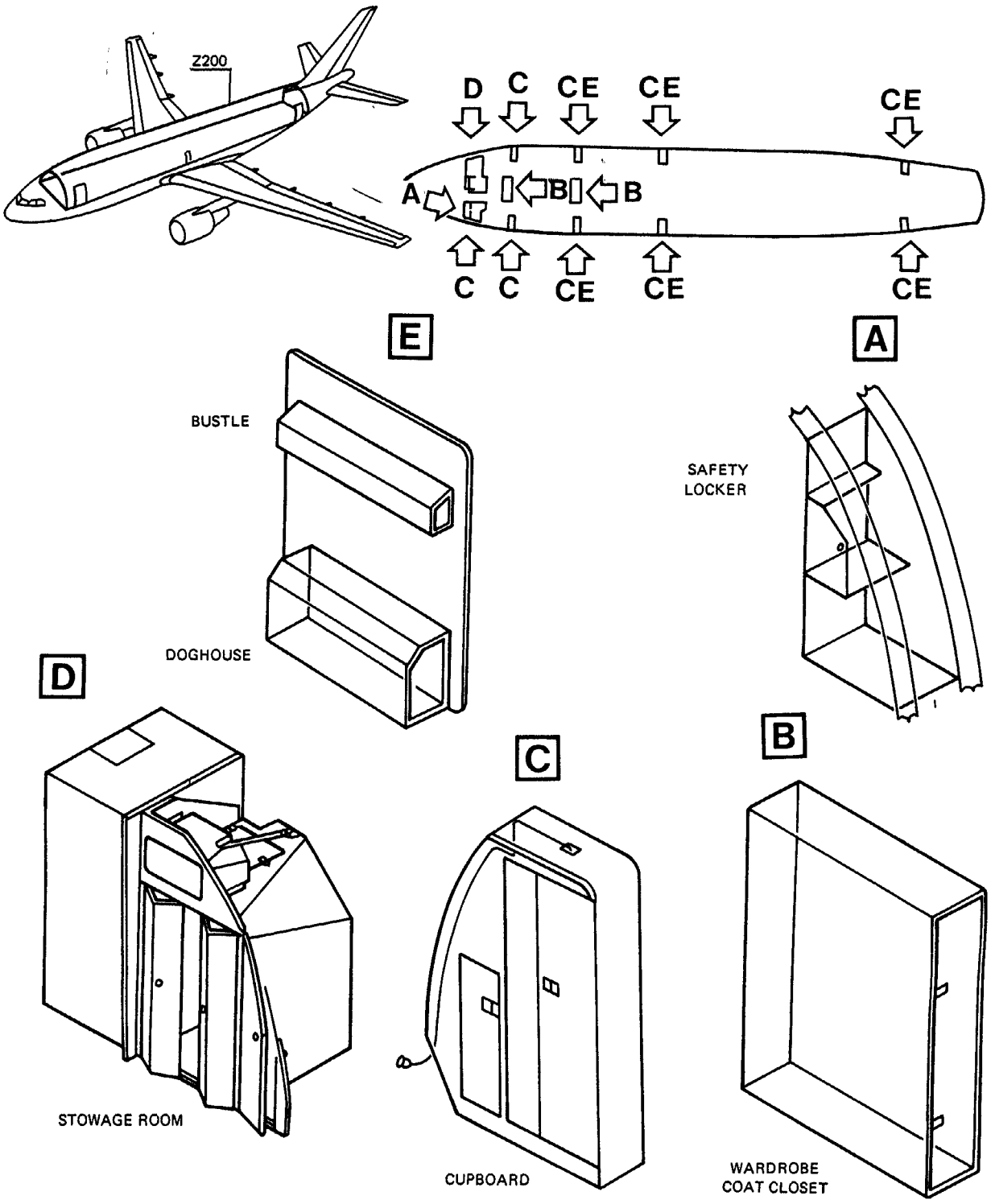
B. **LATERAL WARDROBES** are located in the lateral seating columns and can be installed in the areas between FR18 through 28 and FR31 through 73.

C. **STOWAGE ROOM** is located forward of the fwd passenger/crew entrance area at RH side at the optional lavatory C location.

D. **TROLLEY STOWAGES** are located in the lateral and CTR seating columns, and are installed next to the galleys, partitions, lavatories and cross aisles.

E. **DOGHOUSES** are located forward of partitions, galleys and lavatories. Exceptions for doghouse locations are the partitions behind the fwd entrance areas and the galleys having no passenger seats in front of them.

F. **BUSTLES** are located forward of CTR partitions, CTR galleys and CTR lavatories. Exceptions are the same as for doghouses. One bustle and one doghouse at the CTR partition forward of the rear utility area are standard installations. All other wardrobes and stowages are options, and can be installed if required.
(Ref. Fig. 001)




Stowage Unit Locations
Figure 001

## SAFETY LOCKER - REMOVAL/INSTALLATION

R 1. Referenced Procedure
R - 11-00-00, P. Block 1 Placards and Markings - General

R 2. Procedure

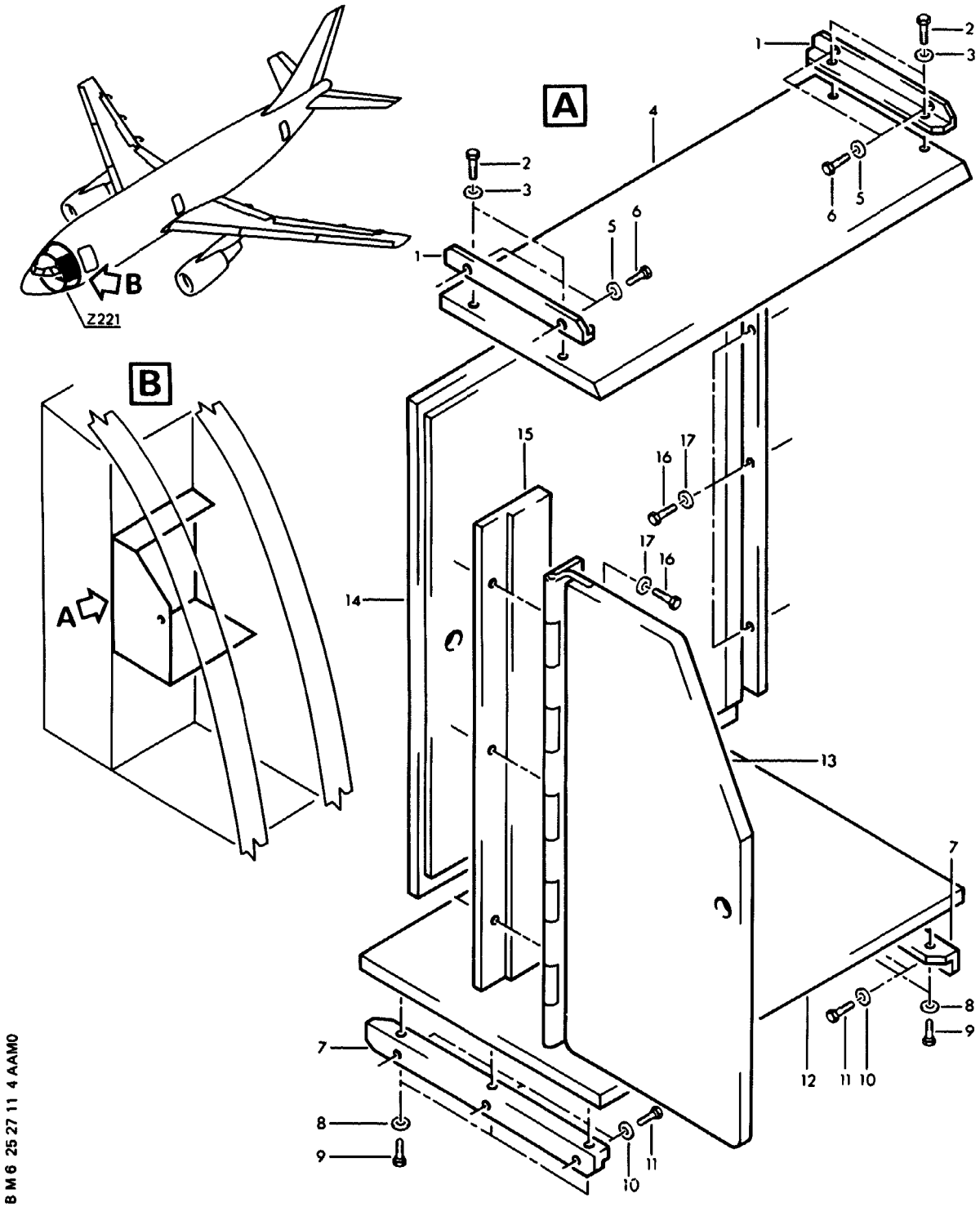
A. Job Set-Up
(1)Empty safety locker compartment.

B. Removal (Ref. Fig. 401)
(1)Remove doors with hinges (13, 14) and stop (15) with screws (16) and washers (17).
(2)Remove screws (2), washers (3) and top panel (4).
(3)Remove screws (6), washers (5) and brackets (1).
(4)Remove screws (9), washers (8) and lower panel (12).
(5)Remove screws (11), washers (10) and brackets (7).

R C. Preparation for Installation
R (1)Make certain that placards on replaced or repaired components are in
R correct position and in good condition.
R (2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

R D. Installation (Ref. Fig. 401)
(1)Install lower brackets (7) with washers (10) and screws (11).
(2)Install top brackets (1) with washers (5) and screws (6).
(3)Install lower panel (12) with washers (8) and screws (9).
(4)Install top panel (4) with washers (3) and screws (2).
(5)Position stop (15) and install doors with hinges (13, 14) using washers (17) and screws (16).

R E. Close Up
(1)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.
(Ref. Fig. 401)




Safety Locker
Figure 401

## COAT CLOSET - REMOVAL/INSTALLATION

**WARNING** : LH VIDEO STOWAGE WEIGHS APPROX. 58 kg (127 lb.).
RH MISC. STOWAGE WEIGHS APPROX. 55 kg (121 lb.)

**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | O-Rings |
| B. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| C. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 53-10-16, P. Block 601 | Seat Tracks |

### 2. Procedure

A. Job Set-Up
(1)Empty LH and RH stowages.
B. Removal

**NOTE** : The removal/installation procedure of RH stowage and LH stowage is similar. Only the procedure of RH stowage is described in the following text.

(1)Open RH stowage doors (29, 30).
(2)Open and safety the circuit breaker (21), V81205-A.
(3)Disconnect the electrical connector from RH stowage.
(4)Remove screws (25), washers (26) and cover (27).
(5)Remove sealant from lower attachment covers and floor covering.
(6)Remove screws (7) and covers (8).
(7)Remove bolts (1), washers (2) and cover plates (3).
(8)Remove shims (4) noting quantity at each location for subsequent installation.
(9)Remove eccentric bushings (5) and eccentric washers (6).

**WARNING** : RH STOWAGE WEIGHTS APPROX. 55 kg (121 lb.).
LH STOWAGE WEIGHTS APPROX. 58 kg (127 lb.).

**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES:

(10)Remove RH stowage.
(11)Remove shims (9) noting quantity at each location for subsequent installation.
(12)Remove nuts (10) and washers (12).
(13)Mark location of seat track fittings (11) and remove with O-rings (13).

Discard O-rings.
(14)Remove washers (14) and studs (15).
(15)Remove and discard sealing strips (28).

WARNING : CLEANING AGENT (MATERIAL NO. 11-003) IS DANGEROUS.

(16)Remove sealant remnants from floor covering using cleaning agent (Ref. Fig. 401)

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
(2)Visually inspect seat tracks and seal, if necessary (Ref. 53-10-16, P. Block 601).
(3)Apply grease (Mat. No. 04-001) to seat tracks in attachment area.
(4)Make certain that installation area is clean and free of tools and miscellaneous items of equipment.
(5)Make certain that placards on replaced or repaired components are in correct positions and in good condition.
(6)If necessary, install new placards (Ref. 11-00-00, P. Block 1).
D. Installation (Ref. Fig. 401)

(1)Install new sealing strips (28) on floor covering.
(2)Install studs (15) and washers (14).
(3)Install new O-rings (13) and seat track fittings (11) at marked positions.
(4)Apply grease (Material No. 04-001) to threads of studs (15).
(5)Install washers (12) and nuts (10).
(6)Install shims (9) making sure that quantity at each location is as noted during removal.

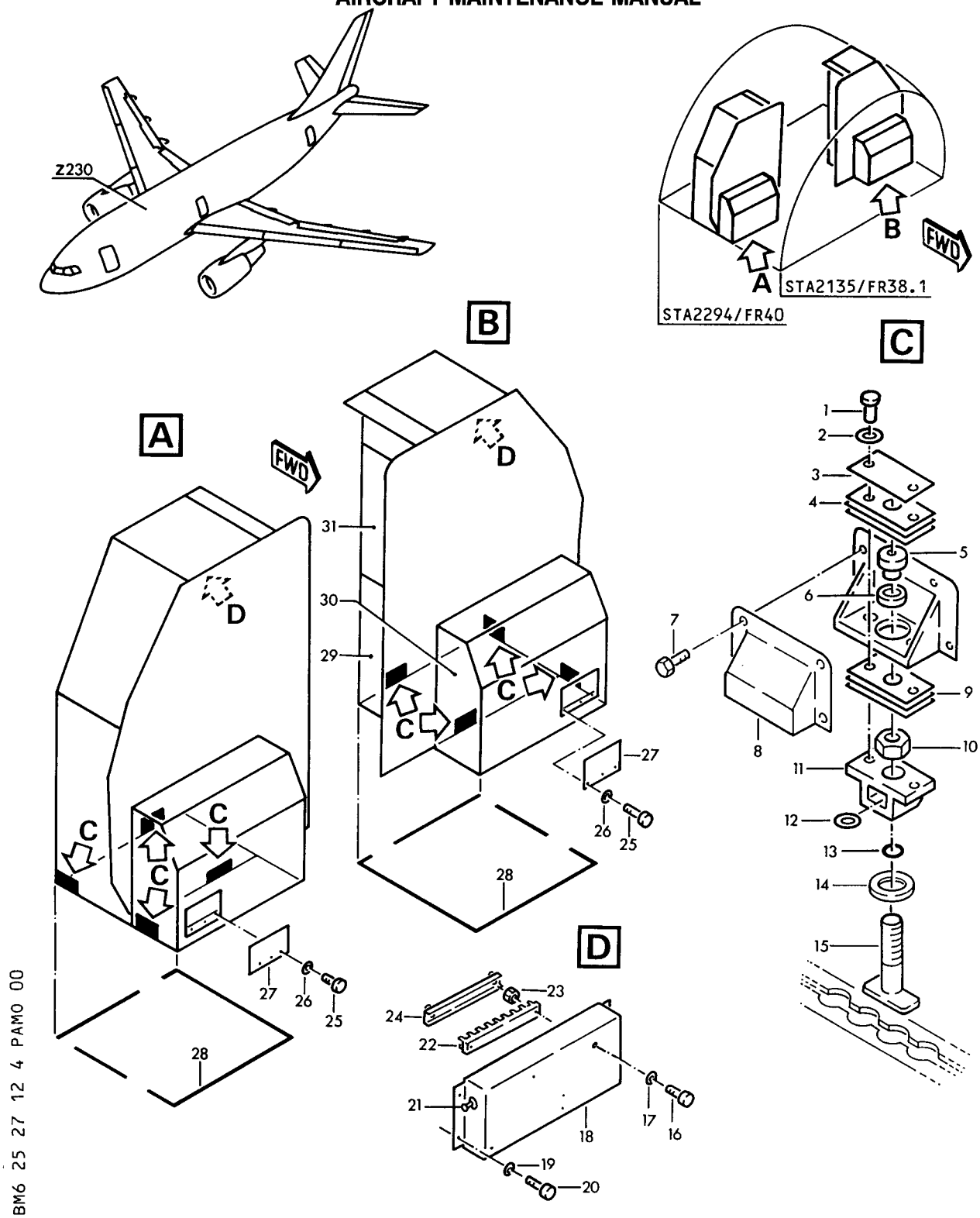
WARNING : RH STOWAGE WEIGHS APPROX. 55 kg (121 lb.).
LH STOWAGE WEIGHS APPROX. 58 kg (127 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES:

(7)Install RH stowage and open the doors (29, 30).
(8)Install eccentric washers (6) and eccentric bushings (5).

NOTE : Lateral adjustment of stowage is achieved at eccentric inserts.

(9)Install shims (4) making sure that quantity at each location is as noted during removal.
(10)Apply grease (Material No. 04-001) to threads of bolts (1).
(11)Install cover plates (3), washers (2) and bolts (1).
(12)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(13)Install covers (8) and screws (7).
(14)Apply sealant (Material No. 04-007) to bond sealing strips to floor coverings.
(15)Install covers (27), washers (26) and screws (25).




LH/RH Stowages - Attachments
Figure 401

(16)Connect electrical connector to RH stowage.
(17)Close the circuit breaker (21), V81205-A.
(18)Close the RH stowage doors (29, 30).

E. Close-Up

(1)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.

# STOWAGE ROOM - REMOVAL/INSTALLATION

WARNING : STOWAGE ROOM WEIGHS 100 kg. (APPROX. 220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| B. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

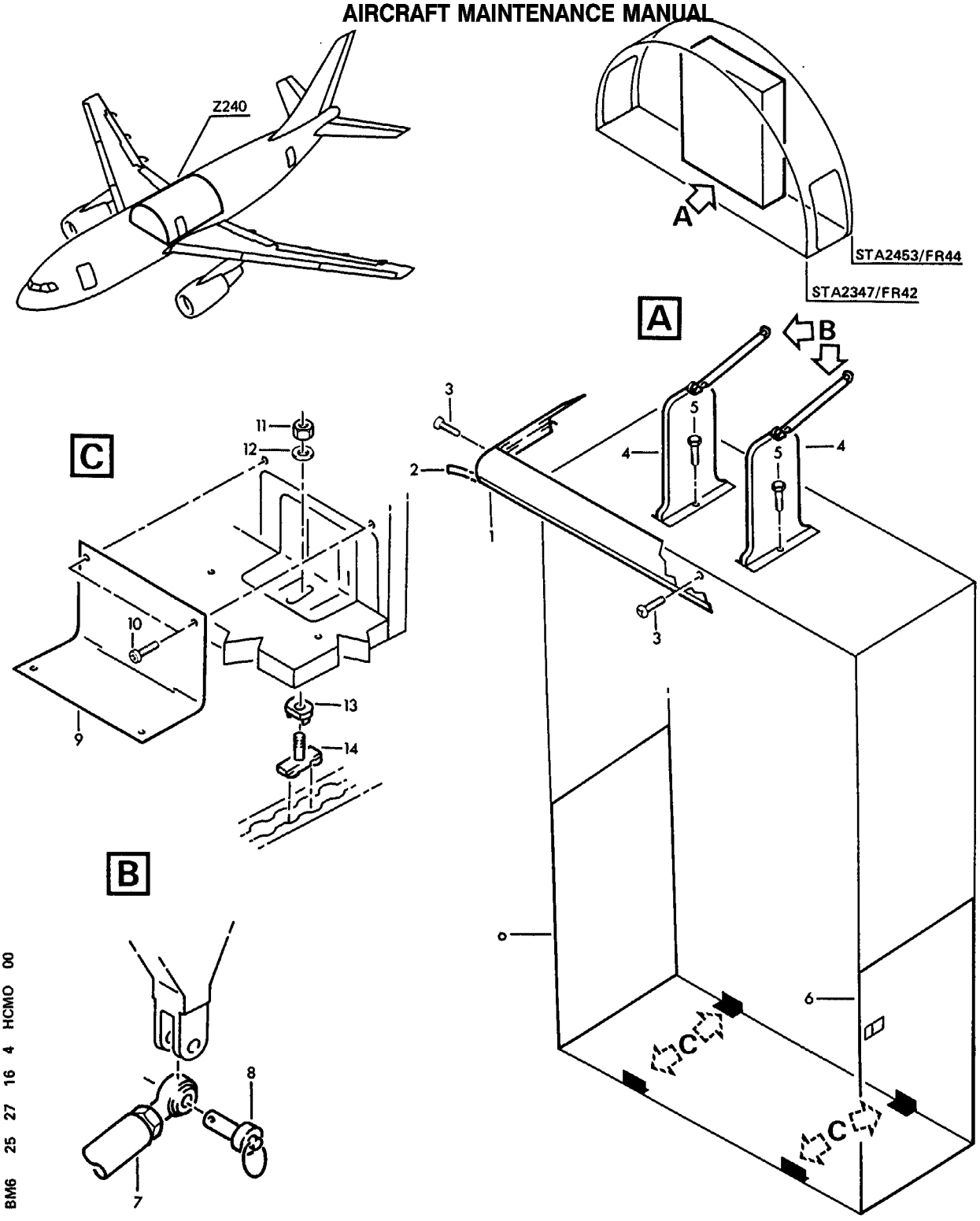
| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 25-23-11, P. Block 401 | Ceiling Panels |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 53-10-16, P. Block 601 | Seat Tracks |

## 2. Procedure

A. Job Set-Up
(1)Remove ceiling panels in stowage room area (Ref. 25-23-11, P. Block 401).
(2)Empty stowage room compartments.

B. Removal (Ref. Fig. 401)
(1)Remove upper attachments.
(a)Remove decor strips (2), screws (3) and pelmet sections (1).
(b)Remove pip pins (8) and disconnect tie-rods (7).
(c)Remove screws (5) and attachment assemblies (4).
(2)Remove lower attachments.
(a)Open stowage room doors (6).
(b)Remove screws (10) and covers (9).
(c)Remove nuts (11) and washers (12).
WARNING : STOWAGE ROOM WEIGHS APPROX. 100 kg. (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(3)Using strips of Teflon or similar material to ease sliding, remove stowage room.
(4)Mark locations of seat track fittings (14) and remove with anchor fittings (13).
(Ref. Fig. 401)

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
(2)Visually inspect seat tracks and seal, if necessary (Ref. 53-10-16, P. Block 601).
(3)Apply grease (Mat. No. 04-001) to seat tracks in attachment area.
(4)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(5)If necessary install new placards (Ref. 11-00-00, P. Block 1).




Stowage Room Attachments
Figure 401

(6)Make certain that installation area is clean and free of tools and miscellaneous items of equipment.

D. Installation (Ref. Fig. 401)
(1)Install seat track fittings (14) with anchor fittings (13) at marked locations.
WARNING : STOWAGE ROOM WEIGHS APPROX. 100 kg. (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Using strips of Teflon or similar material to ease sliding, move stowage room to installation position.
(3)Install lower attachments.
(a)Apply grease (Mat. No. 04-001) to threads of seat track fittings (14).
(b)Install washers (12) and nuts (11).
(c)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(d)Install covers (9) and screws (10).
(e)Close stowage room doors (6).
(4)Install upper attachments.
(a)Install attachment assemblies (4) and bolts (5).
(b)Connect tie-rods (7) and install pip pins (8).
NOTE : Adjust tie-rods, if necessary.
(c)Install pelmet sections (1), screws (3) and decor strips (2).
(5)Install ceiling panels in stowage room area (Ref. 25-23-11, P. Block 401).

E. Close-Up
(1)Make certain that installation area as clean and clear of tools and mescellaneous items of equipment.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| Referenced Procedures | |
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 25-21-00, P. Block 401 | Passenger Seats |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 53-10-16, P. Block 601 | Seat Tracks |

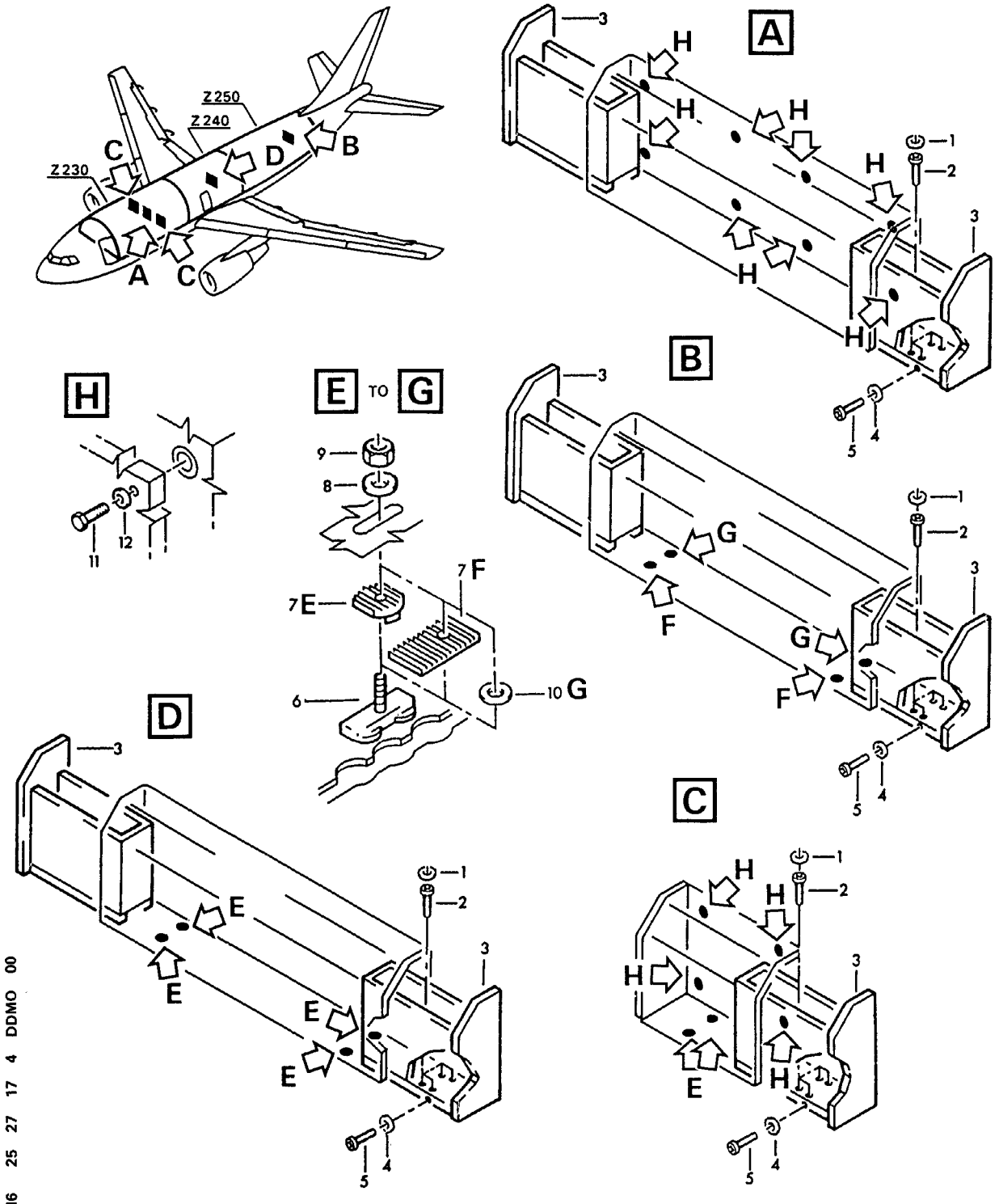
2. Procedure

A. Job Set-Up
(1)Remove passenger seats, if necessary (Ref. 25-21-00, P. Block 401).
(2)Empty doghouse.

B. Removal (Ref. Fig. 401).
(1)Remove caps (1) and screws (2) or screws (5) and washers (4) then remove drawers (3).
(2)Remove bolts (11) and washers (12).
(3)Remove nuts (9) and washers (8).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(4)Remove doghouse.
(5)Mark position of seat track fittings (6) and remove with anchor fittings (7) and/or washers (10).
(Ref. Fig. 401)

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
(2)Visually inspect seat track (Ref. 53-10-16, P. Block 601) and seal, if necessary.
(3)Apply grease (Mat. No. 04-001) to coat seat tracks in attachment area.
(4)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(5)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(6)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.

D. Installation (Ref. Fig. 401)
(1)Apply grease (Mat. No. 04-001) to threads of seat track fittings (6) and install with anchor fittings (7) and/or washers (10).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Install doghouse.
(3)Install washers (8) and nuts (9).
(4)Install washers (12) and bolts (11).
(5)Position drawers (3), then install washers (4) and screws (5) or screws (2) and caps (1).

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Doghouse Attachments
Figure 401

(6)Install passenger seats, if removed (Ref. 25-21-00, P. Block 401).

E. Close-Up

(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# TROLLEY STOWAGE - REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| B. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

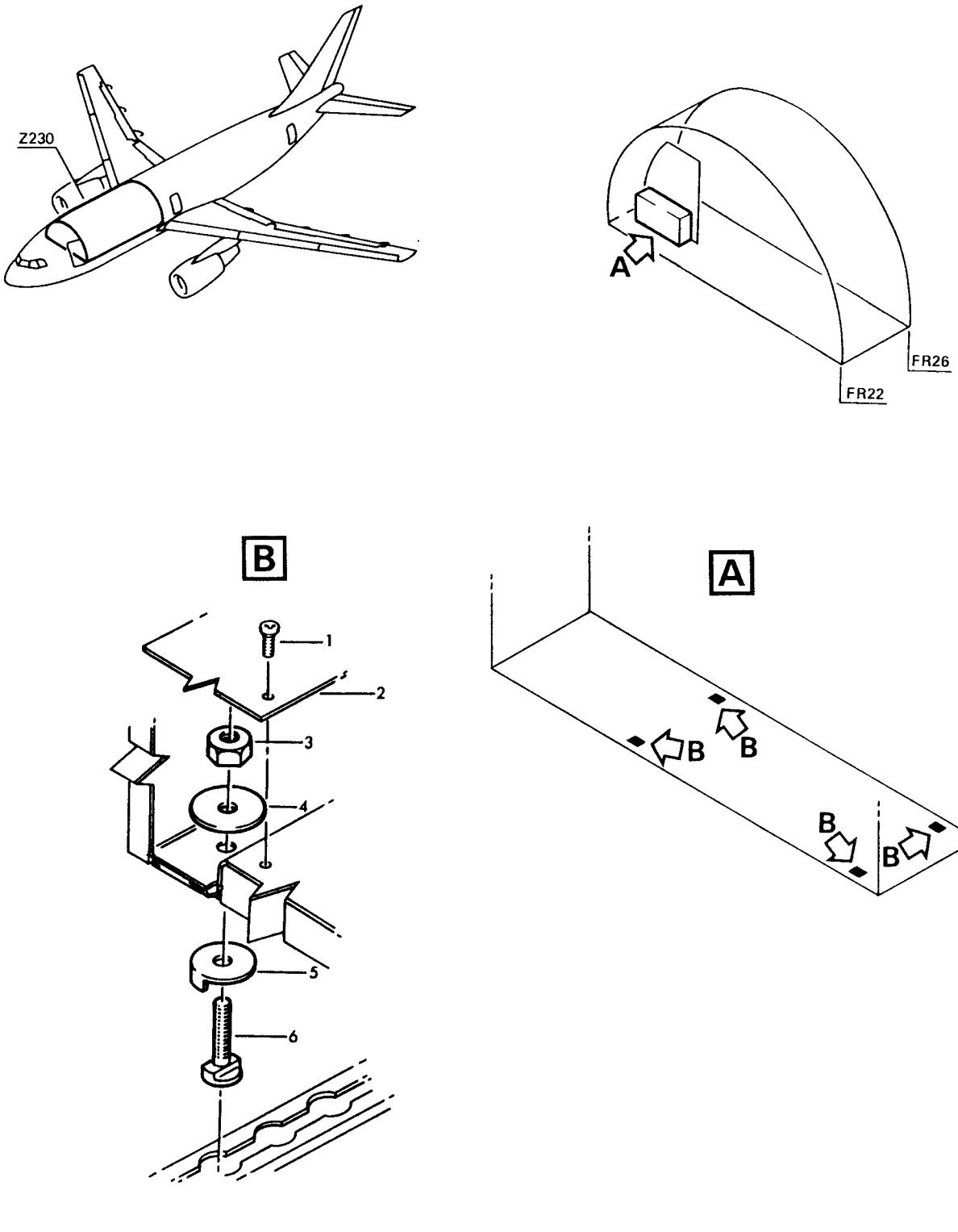
| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 53-10-16, P. Block 601 | Seat Tracks |

## 2. Procedure

A. Job Set-Up
(1)Empty stowage compartments.
(2)Remove passenger seats, if necessary (Ref. 25-21-00, P. Block 401).
(3)Remove curtain and partition (Ref. 25-26-00, P. Block 1) if necessary.
(1)Open door.
(2)Remove screws (1) and covers (2).
(3)Remove nuts (3) and washers (4).
(4)Remove trolley stowage unit.
(5)Mark location of seat track fittings (6) and remove with anchor fittings (5).
(Ref. Fig. 401)

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
(2)Visually inspect seat tracks and seal, if necessary (Ref. 53-10-16, P. Block 601).
(3)Apply grease (Mat. No. 04-001) to seat tracks in attachment area.
(4)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(5)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(6)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.

D. Installation
(1)Apply grease (Mat. No. 04-001) to threads of seat track fittings (6) and install with anchor fittings (5) at marked locations.
(2)Install trolley stowage unit.
(3)Install washers (4) and nuts (3).
(4)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(5)Install covers (2) and screws (1).
(6)Install passenger seats, if removed (Ref. 25-21-00, P. Block 401).

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Trolley Stowage Attachments
Figure 401

(7)Install partition and curtain, if removed (Ref. 25-26-00, P. Block 1).

E. Close-Up

(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# FLOOR COVERING - DESCRIPTION AND OPERATION

## 1. General

Passenger compartment floor covering provides for passenger comfort, sound-proofing and protection of the floor panels.
The floor covering consists of textile (carpeting) and nontextile materials.
Floor covering is provided in the passenger seating and cabin utility areas.

## 2. Component Location

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Nontextile Floor Covering | 200 | |
| 2 | Carpet Floor Covering | 200 | |
| 3 | Floor Tray | 200 | |
| 4 | Trim Strip | 200 | |
| 5 | Angle | 200 | |
| 6 | Seat Track Cover | 200 | |
| 7 | Double-backed Tape | 200 | |
| 8 | Threshold | 200 | |
| 9 | Cover Strip | 200 | |
| 10 | Sealing Compound | 200 | |
| 11 | GRP-Strip | 200 | |
| 12 | Cord | 200 | |
| 13 | Sealing Compound | 200 | |

## 3. Description

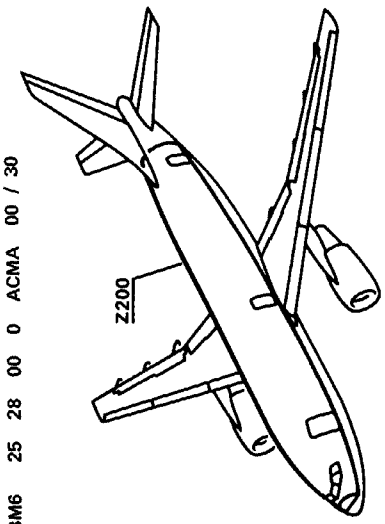
(Ref. Fig. 001)

### A. Carpet Floor Covering

The passenger compartment seating area floor is covered with flame-resistant wool carpet sections. The carpeting is secured to the floor structure with double-backed tape. Carpet edges are additionally secured with thresholds and seat track covers.
GRP strips, secured to the seat tracks with double-backed tape, are used as filler strips to provide an even surface where the carpeting covers the seat tracks.

### B. Nontextile Floor Covering

The passenger compartment utility area floor is covered with nontextile materials as a protective barrier to prevent corrosive liquids, from the lavatories, galleys and cabin entrance areas, contacting the structural flooring.
A layer of silicone sheeting, Airfloor or Batiflex, reinforced with a Phenolic Resin Laminate (PRL) covers each utility area, excluding the stowage unit installation positions.
The sheets are secured with double backed tape to a Mylar sheet which gives added protection against spillage and corrosion in the utility areas.
NTF materials are sealed at all cutouts, outer contours and joint seams using a silicone based sealant to complete the integrity of the

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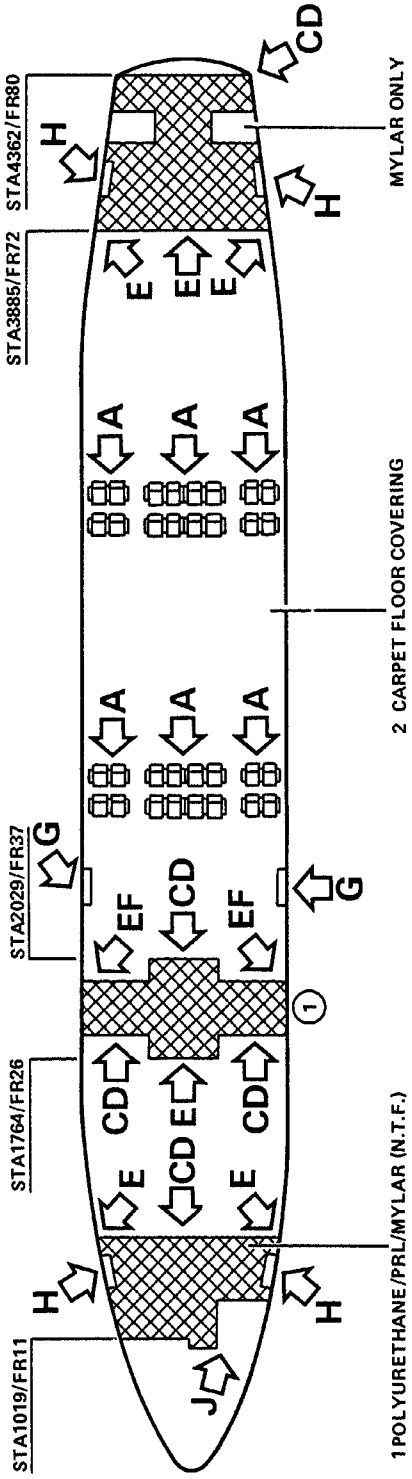


General Arrangement of Floor Covering
(Sheet 1/2)
Figure 001

R

EFFECTIVITY: ALL

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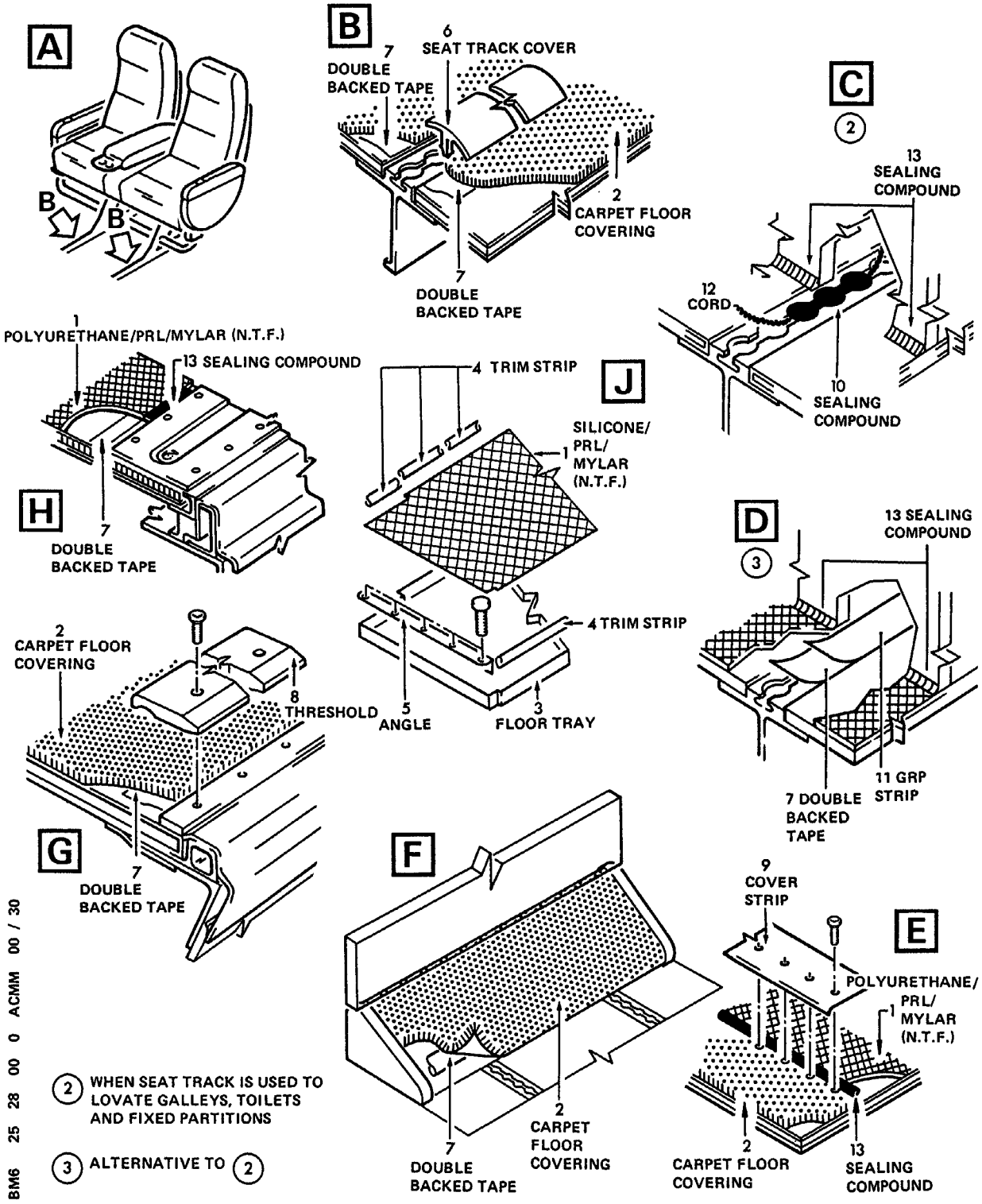


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General Arrangement of Floor Covering
(Sheet 2/2)
Figure 001

R

corrosion protection.
Seat tracks are filled with a polysulphide sealing compound at equipment attachment points. A fibre cord is embedded in the sealing compound to assist removal. In other areas, GRP strips secured to the seat tracks with double-backed tape, provide an even surface where the silicone sheeting covers the seat tracks. The galleys and lavatory units are installed over and sealed to the silicone sheeting using a silicone based sealant. As an option, to prevent scuffing, protection plates are fitted to the base of the galley and lavatory wall areas.

**ON A/C 001-003,

The addition of a Mylar sheet underneath the aft lavatory/utility areas improves corrosion protection against accidental spillage/seepage.
The Mylar sheet has a self-adhesive backing and is sandwiched between the nontextile floor material and the floor panel base.

## CARPET FLOOR COVERING - REMOVAL/INSTALLATION

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
APPLY MATERIALS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
SOME MATERIALS ARE FLAMMABLE AND/OR TOXIC. AVOID INHALING FUMES.
USE IN WELL VENTILATED AREAS. OBSERVE FIRE REGULATIONS.
SOME MATERIALS CONTAIN IRRITANTS. WEAR PROTECTIVE GLOVES, PROTECTIVE GOGGLES, PROTECTIVE MASK AND PROTECTIVE CLOTHING.
WASH IMMEDIATELY WITH CLEAN WATER, OR GET MEDICAL HELP IF SKIN OR EYES ARE AFFECTED.

### 1. Reasons for the Job

A. Removal for replacement or cleaning.

B. Removal for modification of seating configuration.

C. Removal for access to structure, fittings or paneling.

D. Removal for repair of nontextile floor covering located under carpet.

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Nonmetallic Scraper |
| B. Material No. 05-018 | Special Materials (Ref. 20-31-00) |
| C. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| D. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| E. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| F. Material No. 08-004A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| G. Material No. 09-002 | Sealants (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-27-17, P. Block 401 | Doghouse |
| - 33-51-17, P. Block 401 | Floor Escape Path Marking - Lighting |
| - 51-00-00, P. Block 701 | Structures |
| - 53-01-16, P. Block 601 | Seat Tracks |

### 3. Procedure

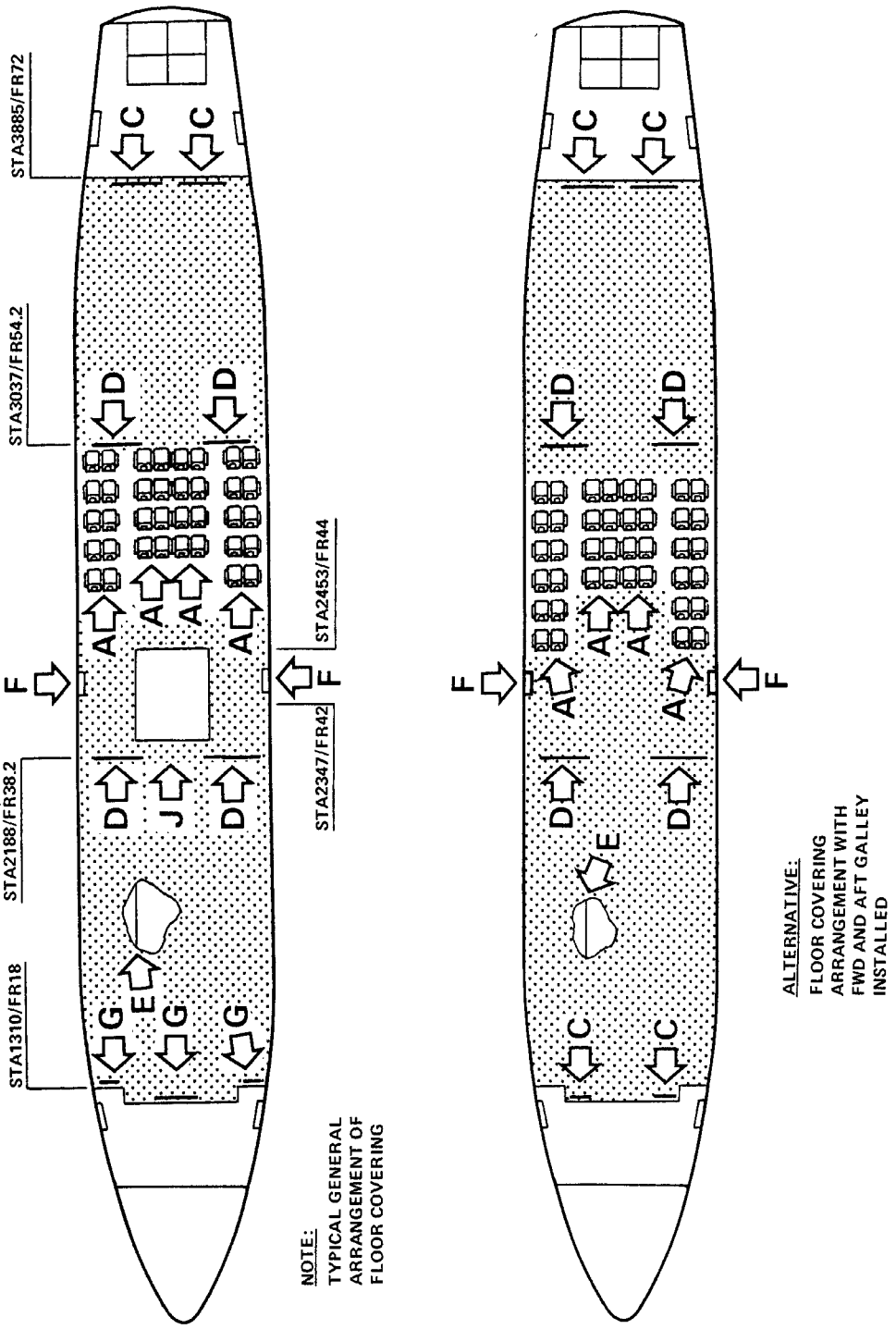
A. Job Set-Up
(1)Remove passenger compartment seats as required (Ref. 25-21-00, P. Block 401).
(2)Remove cabin attendant seats as required (Ref. 25-21-61, P. Block 401).
(3)Remove partitions as required (Ref. 25-26-00, P. Block 001).
(4)Remove ancillary equipment as required (Ref. 25-27-17, P. Block 401).

(5)Remove floor escape path marking lighting as required (Ref. 33-51-17, P. Block 401).

B. Removal of Carpet Floor Covering
(Ref. Fig. 401)
(Ref. Fig. 402)

(1)Remove screws (1), cover strips (3) and threshold sections (4).
(2)Remove any remaining seat track covers (5).
(3)Remove footrest carpeting as required and if fitted.
(a)Carefully pull carpeting (2) free from double-backed tape (7) until access holes in footrest are exposed if fitted.
(b)Release sealant from base of footrest by pulling cord if fitted.
(c)Remove nuts (6), then lift footrest free from anchor fittings if fitted.
(d)Remove remaining carpeting from underside of footrests if fitted.
(4)Remove carpet runs (2) and galley wall carpet sections (8) as required by lifting carpet corners and carefully pulling carpet free from tape.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(5)Remove old double-backed tape (7) using nonmetallic scraper and cleaning agent (Mat. No. 11-003).

C. Installation of Carpet Floor Covering
(Ref. Fig. 401)
(Ref. Fig. 402)
(1)Prepare passenger compartment floor for carpet installation.
(a)Visually inspect floor panels for damage and cleanliness.
(b)Visually inspect exposed seat tracks (Ref. 53-10-16, P. Block 601).
(c)Clean exposed seat tracks as required (Ref. 51-00-00, P. Block 701).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(d)Clean all areas where double - backed tape (Mat. No. 05-018) is to be applied with cleaning agent (Mat. No. 11-003).
(2)Apply double-backed tape (7), (Mat. No. 05-018) to all areas where edges of carpet will be located, including along both sides of seat tracks.
NOTE : Apply additional strips of double backed-tape (7) in the aisle areas to prevent carpet movement.
(3)Install carpet runs (2) and carpet sections (8) as required.
(4)Press carpets firmly to ensure good adhesion.
(5)Position footrests, install nuts (6) if fitted.
(6)Seal footrests to floor panels if fitted.
(a)Lay length of cord (Mat. No. 05-016) around base of footrests if fitted.
NOTE : Cut cord with approx. 100 mm (4 in.) surplus length to allow for sealant removal.
(b)Apply sealant (Mat. No. 09-002) to footrest if fitted, or to floor joint seams. Do not cover cord surplus length with sealant.
NOTE : In areas where sealant is applied directly to Mylar, use sealant (Mat. No. 08-004A) in lieu of sealant (Mat. No. 09-002).
(7)Position remaining carpeting and press to ensure good adhesion.
(8)Install floor escape path marking lighting as required (Ref. 33-51-17, P. Block 401).

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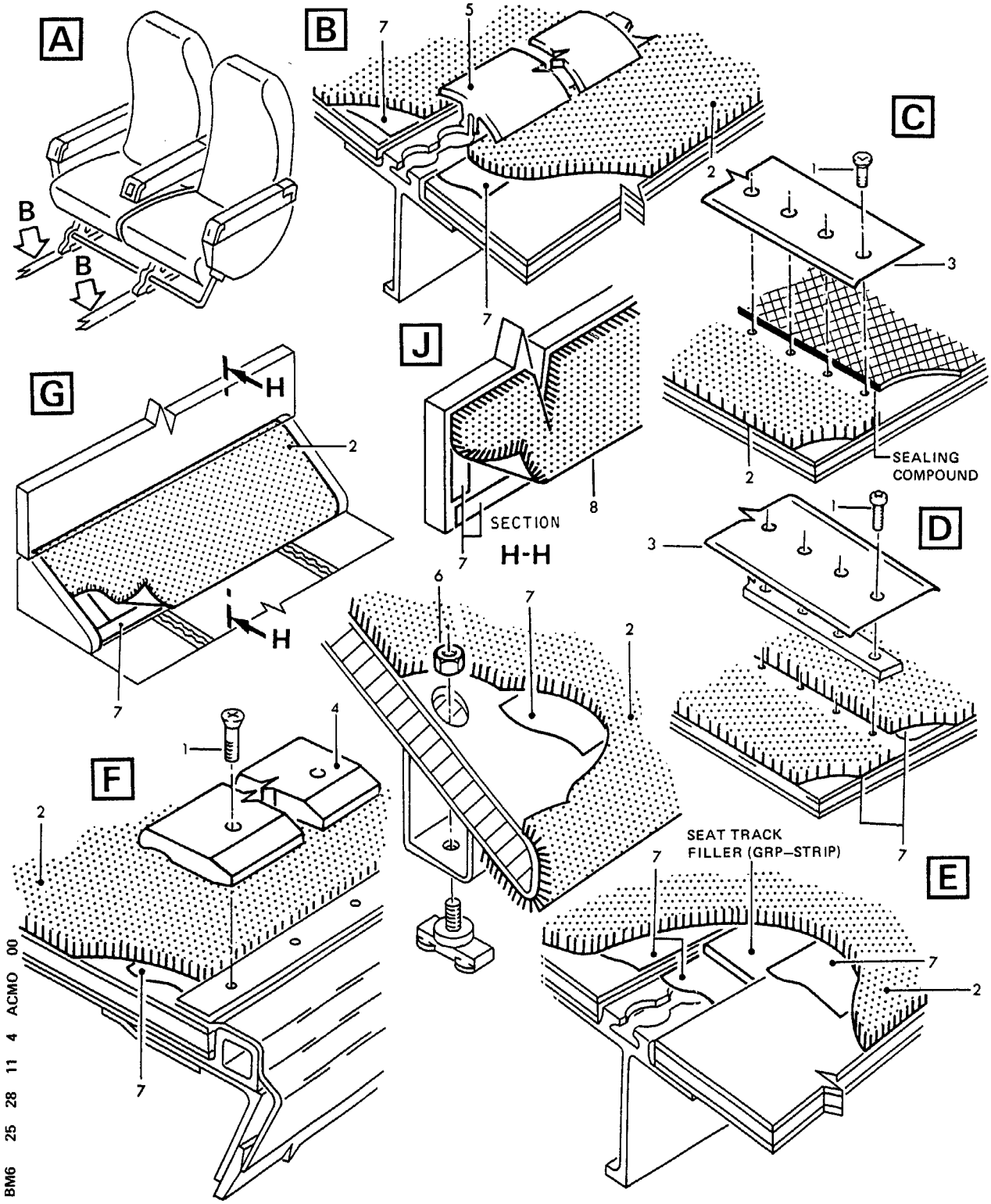
Removal/Installation of Carpet Floor Covering
Figure 401




Removal/Installation of Carpet Floor Covering
Figure 402

(9)Install cover strips (3) and threshold sections (4) with screws (1).
NOTE : Before installing screws (1), coat them with thread sealant (Mat. No. 05-002).
(10)Install passenger compartment seats (Ref. 25-21-00, P. Block 401).
(11)Make certain that all seat track covers (5) are installed.
NOTE : Cut out the vertical section of the track cover at one end no more than one inch to cover the seat attach fitting.

D. Close-Up
(1)Install cabin attendant seats as required (Ref. 25-21-41, P. Block 401).
(2)Install partitions as required (Ref. 25-26-00, P. Block 001).
(3)Install ancillary equipment, as required (Ref. 25-27-17, P. Block 401.
(4)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.

## NONTEXTILE FLOOR COVERING - REMOVAL/INSTALLATION

**WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.**

1. Reasons for the Job

A. Removal for replacement

B. Removal for cleaning and inspecting seat tracks

C. Removal for access to structure, fittings or floor paneling

2. Equipment and Materials

| | ITEM | DESIGNATION |
|---|---|---|
| | A. | Access Platform, 3 m (10.0 ft.) |
| | B. | Nonmetallic Scraper |
| | C. | Sealant Applicator Gun |
| | D. | Carpet Knife |
| | E. | Clean, Lint-Free Cloth |
| | F. | Adhesive Tape |
| | G. | Expanded Rubber Roller |
| | H. | Airfloor (NTF) (Replacement Only) |
| | J. | Mylar Film (Replacement Only) |
| | K. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| | L. Material No. 05-018 | Special Materials (Ref. 20-31-00) |
| R | M. Material No. 08-057 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| R | N. Material No. 08-082 | Bonding and Adhesive Compounds (Ref. 20-31-00) (Alternative to item L.) |
| | P. Material No. 09-036 | Sealants (Ref. 20-31-00) |
| | R. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 25-00-00, P. Block 801 | Equipment/Furnishings |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-27-12, P. Block 401 | Coat Closet |
| - 25-27-13, P. Block 401 | Wardrobe |
| - 25-27-14, P. Block 401 | Cupboard |
| - 25-27-17, P. Block 401 | Doghouse |
| - 25-27-18, P. Block 401 | Trolley Stowage |
| - 25-28-00, P. Block 1 | Floor Covering |
| - 25-30-00, P. Block 1 | Buffet and Galley |
| - 25-40-00, P. Block 1 | Lavatories |
| - 53-10-16, P. Block 601 | Seat Tracks |
| - 53-10-20, P. Block 601 | Floor Panels |

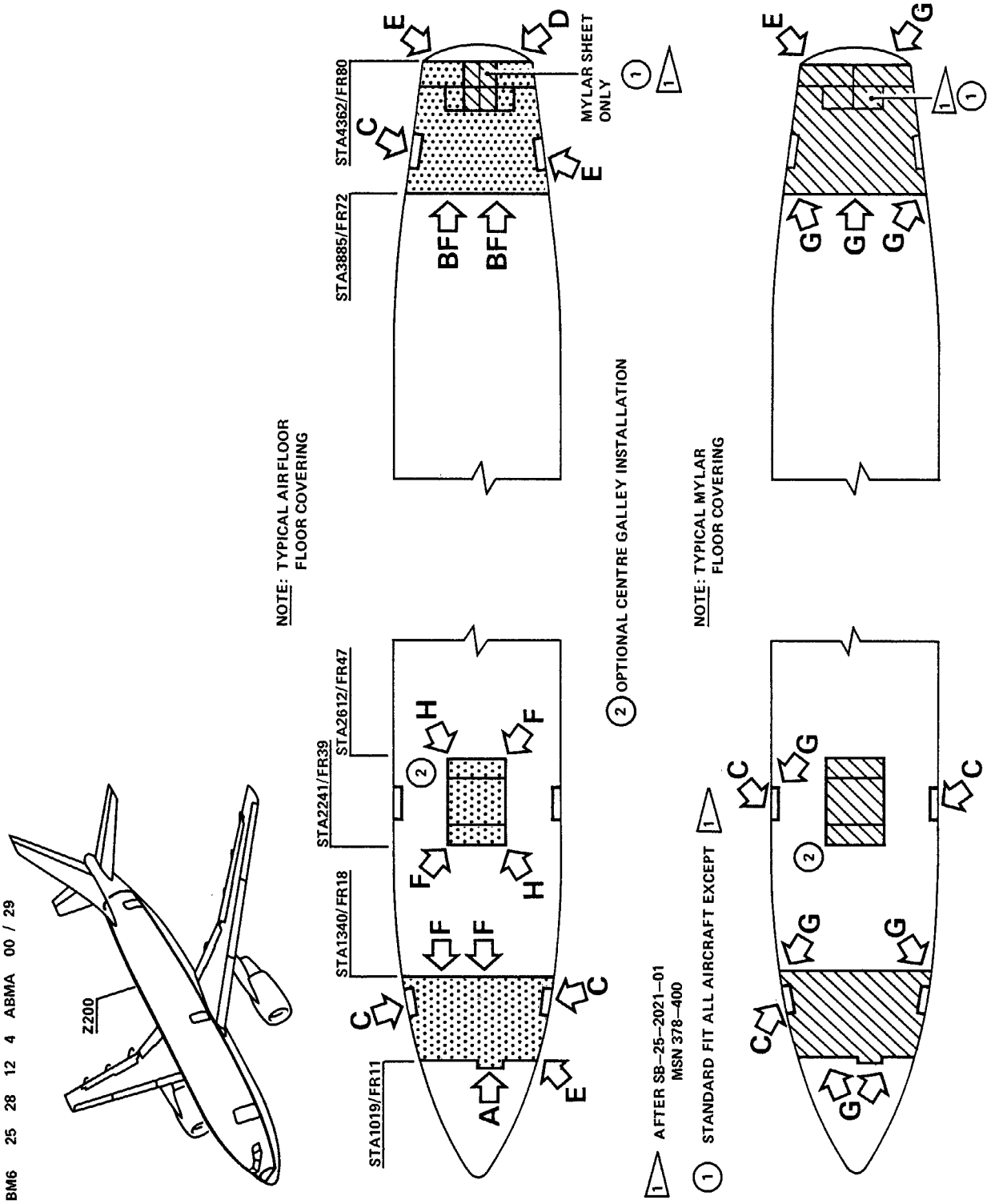
3. Procedure

A. Job Set-Up
(1)Position access platform and gain access to passenger compartment through an appropriate passenger/crew door.
(2)Remove passenger seats, as required (Ref. 25-21-00, P. Block 401).
(3)Remove cabin attendant seats, as required (Ref. 25-21-61, P. Block 401).
(4)Remove lower sidewall panels, as required (Ref. 25-23-31, P. Block 401).
(5)Remove partitions, as required (Ref. 25-26-00, P. Block 1).
(6)Remove ancillary equipment, as required (Ref. 25-27-12, P. Block 401, 25-27-13, P. Block 401, 25-27-14, P. Block 401, 25-27-17, P. Block 401, 25-27-18, P. Block 401).
(7)Remove carpet floor covering, as required (Ref. 25-28-00, P. Block 1).
(8)Remove galley units, as required (Ref. 25-30-00, P. Block 1).
(9)Remove lavatories, as required (Ref. 25-40-00, P. Block 1).

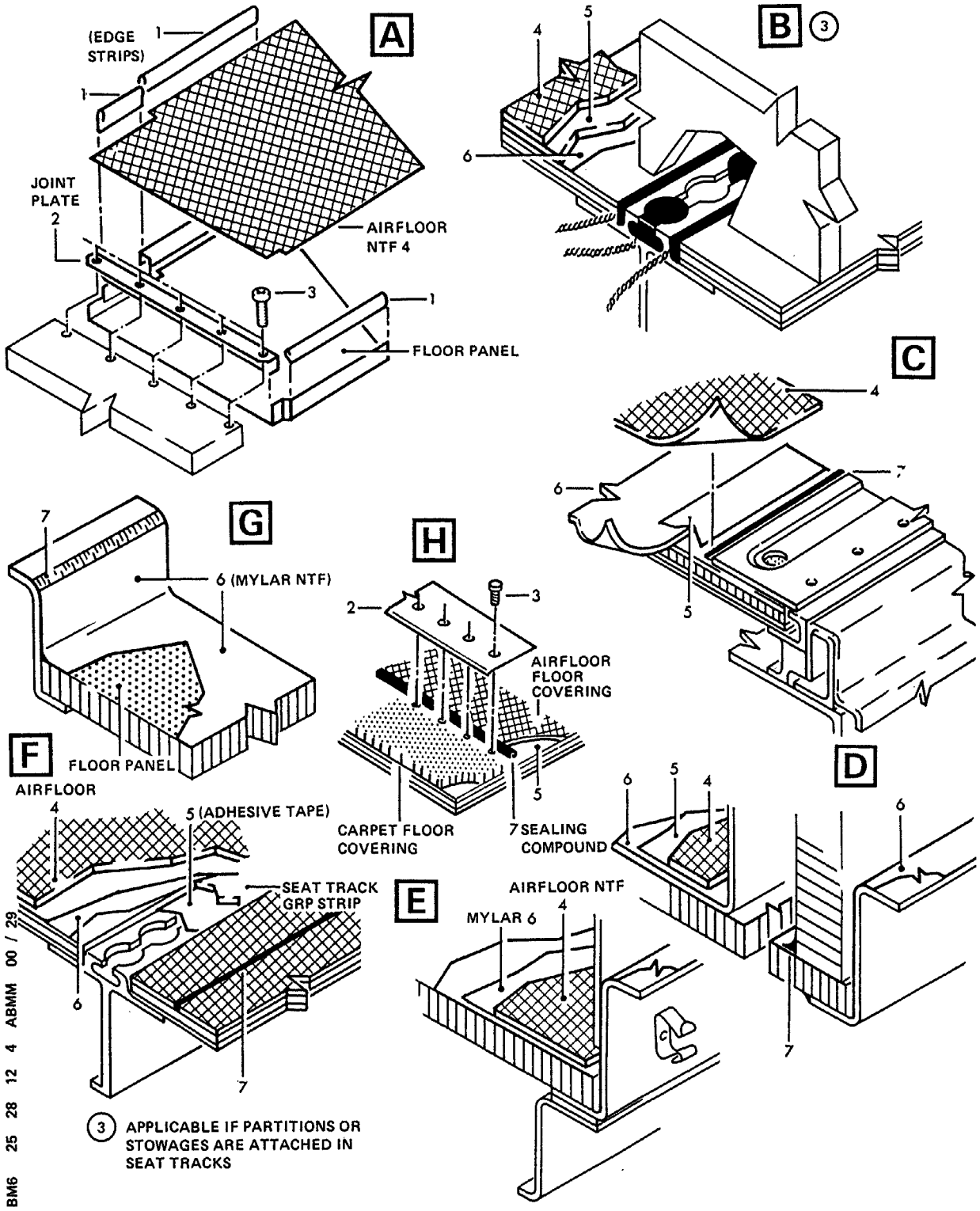
B. Removal
(Ref. Fig. 401)
NOTE : Airfloor (NTF) can be repaired, refer to 25-00-00, P. Block 801.
(1)Removal of Airfloor (NTF)
(a)If required, remove all edging strips (1) and joint plates (2) by removing screws (3).
(b)Remove Airfloor NTF (4) by carefully pulling free from double-backed tape (5). Use nonmetallic scraper to assist removal.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(c)If Mylar film (6) is not being replaced, remove remains of double-backed tape (5) from Mylar film (6). Use cleaning agent (Mat. No. 11-003) and nonmetallic scraper to assist removal.
(2)Removal of Mylar Film
NOTE : Mylar film can be repaired, refer to 25-00-00, P. Block 801.
(a)Remove NTF as described previously.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(b)Remove Mylar film (6) by carefully peeling back on edge of material and gradually pulling the material away from the floor panel base. Use cleaning agent (Mat. No. 11-003) and nonmetallic scraper to assist removal.

C. Preparation of Replacement Components
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(1)Clean floor panels, seat tracks and GRP strips as required, using cleaning agent (Mat. No. 11-003) and clean lint-free cloth.
(2)Visually inspect floor panels (Ref. 53-10-20, P. Block 601).
(3)Visually inspect seat tracks (Ref. 53-10-16, P. Block 601).

D. Installation
(Ref. Fig. 401)
(1)Install Mylar Film
(a)Roll and press down Mylar film (6) to eliminate air bubbles and ensure good adhesion.
Use expanded rubber roller to assist installation.
(b)Cut out holes and attachment points as required, using carpet knife.




Typical Nontextile Floor Covering
(Sheet 1/2)
Figure 401




Typical Nontextile Floor Covering
(Sheet 2/2)
Figure 401

NOTE : Do not cut through floor panel base.

(c)At joints between Mylar film (6) cover with Mylar film strips, 50 mm (2.0 in.) wide.

(2)Install Airfloor (NTF)

(a)Apply double-backed tape (5) (Mat. No. 05-018) to outer contours and cutouts of Mylar film (6).

NOTE : Maximum allowed spacing between double-backed tape strips is 300 mm (11.8 in.).

(b)Press down Airfloor (NTF) (4) onto double-backed tape (5). Apply firm pressure to ensure good adhesion.

(c)Cut out holes and attachment points as required, using carpet knife.

(d)Apply Floorsil 87 sealant (7) (Mat. No. 09-036) (7) to all cutouts and outer contours of Airfloor (NTF) (4).

NOTE : Where Floorsil 87 sealant (7) (Mat. No. 09-036) comes in contact with Mylar film (6) pretreat Mylar film with Primer 1217 (Mat. No. 08-057).

NOTE : Floorsil 87 (Mat.No. 09-036) requires time to cure. The time needed depends upon the humidity and temperature. For optimal reaction it is advantageous to have high humidity together with a temperature of up to 30 °C. At low humidity (< 50 %) and low temperature (< 15 °C) the adhesive requires a long time to react. (At 17 °C and 75 % humidity, after 4 hours the floor covering is walkable).

(f)Remove adhesive adhesive tape when joints have cured.

(g)If remove, apply thread sealant (Mat. No. 05-002) to threads of screws (3) and install joint plates (2) and edging strips (1).

E. Close-Up

(1)Install carpet floor covering, as required (Ref. 25-28-00, P. Block 1).

(2)Install lower sidewall panels, as required (Ref. 25-23-21, P. Block 401).

(3)Install lavatories, as requred (Ref. 25-40-00, P. Block 1).

(4)Install galley units, as required (Ref. 25-30-00, P. Block 1).

(5)Install ancillary equipment, as required (Ref. 25-27-12, P. Block 401, 25-27-13, P. Block 401, 25-27-14, P. Block 401, 25-27-17, P. Block 401, 25-27-18, P. Block 401).

(6)Install lower sidewall panels, as required (Ref.25-23-31, P. Block 401).

(7)Install cabin attendant seats, as required (Ref. 25-21-61, P. Block 401).

(8)Install passenger seats, as required (Ref. 25-21-00, P. Block 401).

(9)Make certain, that working area is clean, and clear of tools and miscellaneous items of equipment.

(10)Close passenger/crew door and remove access platform.

# ELECTRICAL SERVICE SUPPLY - DESCRIPTION AND OPERATION

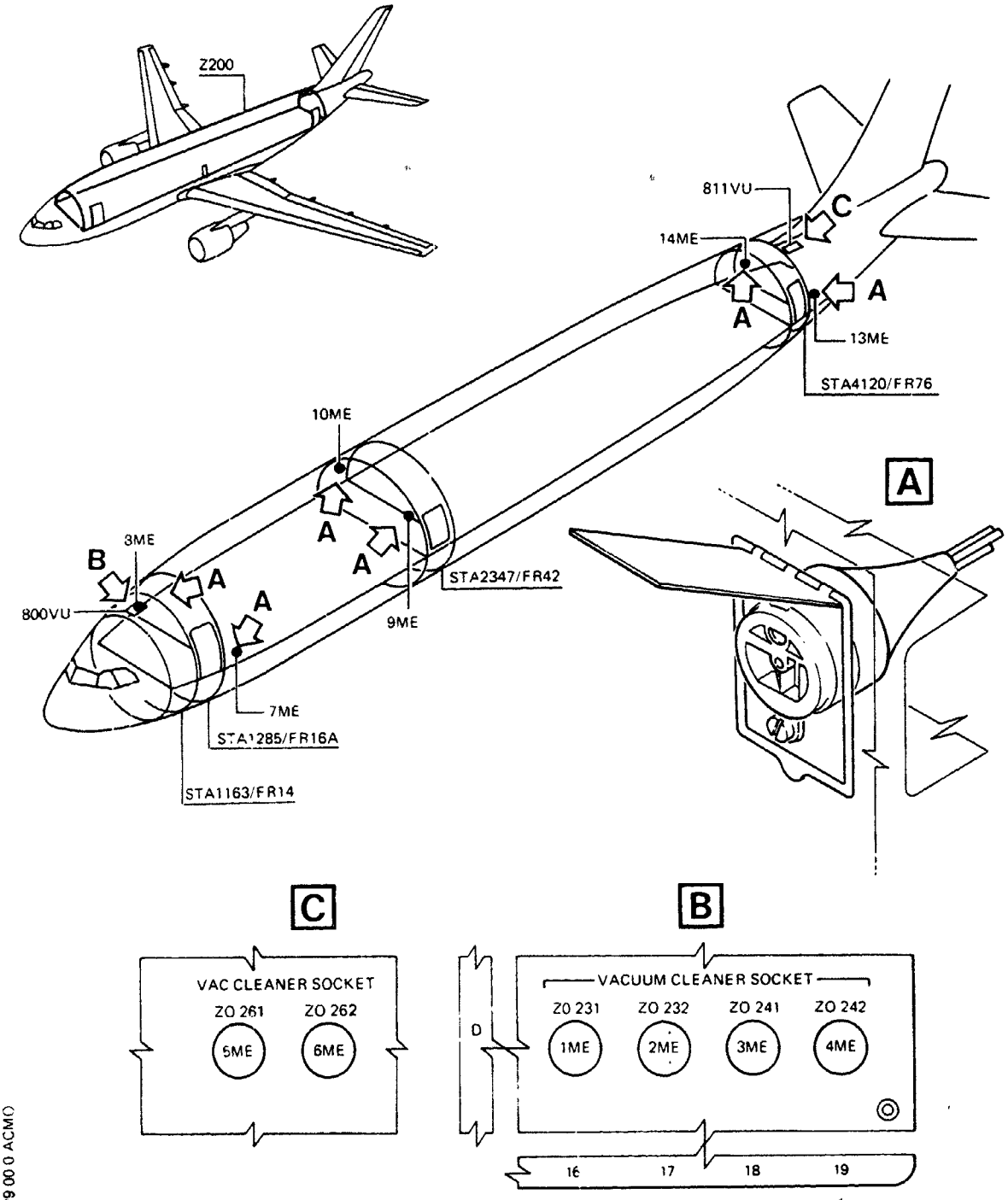
## 1. General

A. Altogether six vacuum cleaner sockets are provided. Each vacuum cleaner socket is protected by its own individual circuit breaker. The 115V, 400 Hz supply is from busbar 216XP.

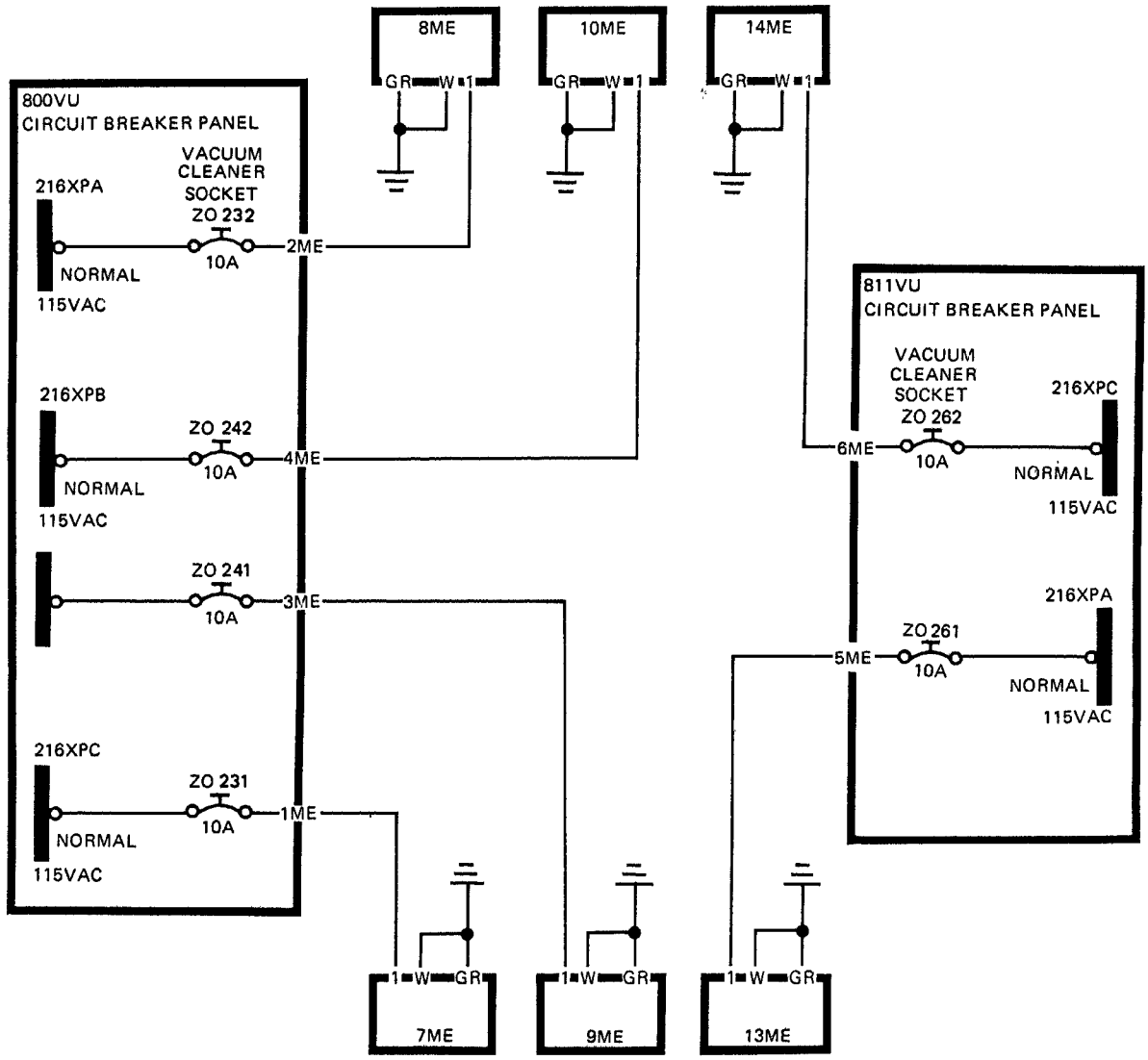
## 2. Component Location

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF. |
|---|---|---|---|---|---|
| 7ME | SOCKET-CLEANER | | 231 | | |
| 8ME | SOCKET-CLEANER | | 232 | | |
| 9ME | SOCKET-CLEANER | | 241 | | |
| 10ME | SOCKET-CLEANER | | 242 | | |
| 13ME | SOCKET-CLEANER | | 261 | | |
| 14ME | SOCKET-CLEANER | | 262 | | |

(Ref. Fig. 001)
(Ref. Fig. 002)




Vacuum Cleaner Sockets
Figure 001

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Vacuum Cleaner Sockets - Power Supply
Figure 002

## 1. General

A. Galleys are installed in the passenger compartment to provide storage and preparation areas for food and beverages.

## 2. Component Location

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE ACCESS DOOR | ATA REF. |
|---|---|---|---|---|
| | FWD GALLEY UNITS | | | |
| | | | 221-222 | 25-31-11 |
| | | | 221-222 | 25-31-12 |
| | | | 231-232 | 25-31-13 |
| | | | 231-232 | 25-31-14 |
| | CENTER GALLEY UNITS | | | |
| | | | 231-232 | 25-32-11 |
| | | | 231-232 | 25-32-12 |
| | | | 231-232 | 25-32-13 |
| | | | 231-232 | 25-32-14 |
| | AFT GALLEY UNITS | | | |
| | | | 251-252 | 25-33-11 |
| | | | 251-252 | 25-33-12 |
| | | | 261-262 | 25-33-13 |
| | | | 251-252 | 25-33-14 |

(Ref. Fig. 001)

## 3. Description

A. Galleys

(1)Galley Attachments

Attachment points for the installation of the galleys in the seating areas are incorporated in the center supply channel.
The other galleys are attached to the frame structure. The galleys are secured to the passenger compartment floor with special bolts and location fittings, which are mounted in the floor structure at hard points.

(2)Galley Systems

(a)Water System

Water is supplied to the wet galleys via the aircraft system. The galley water system provides filtered potable water to the galley equipment and faucets. Waste water and drain water is expelled via the drain mast (Ref. 38-00-00).

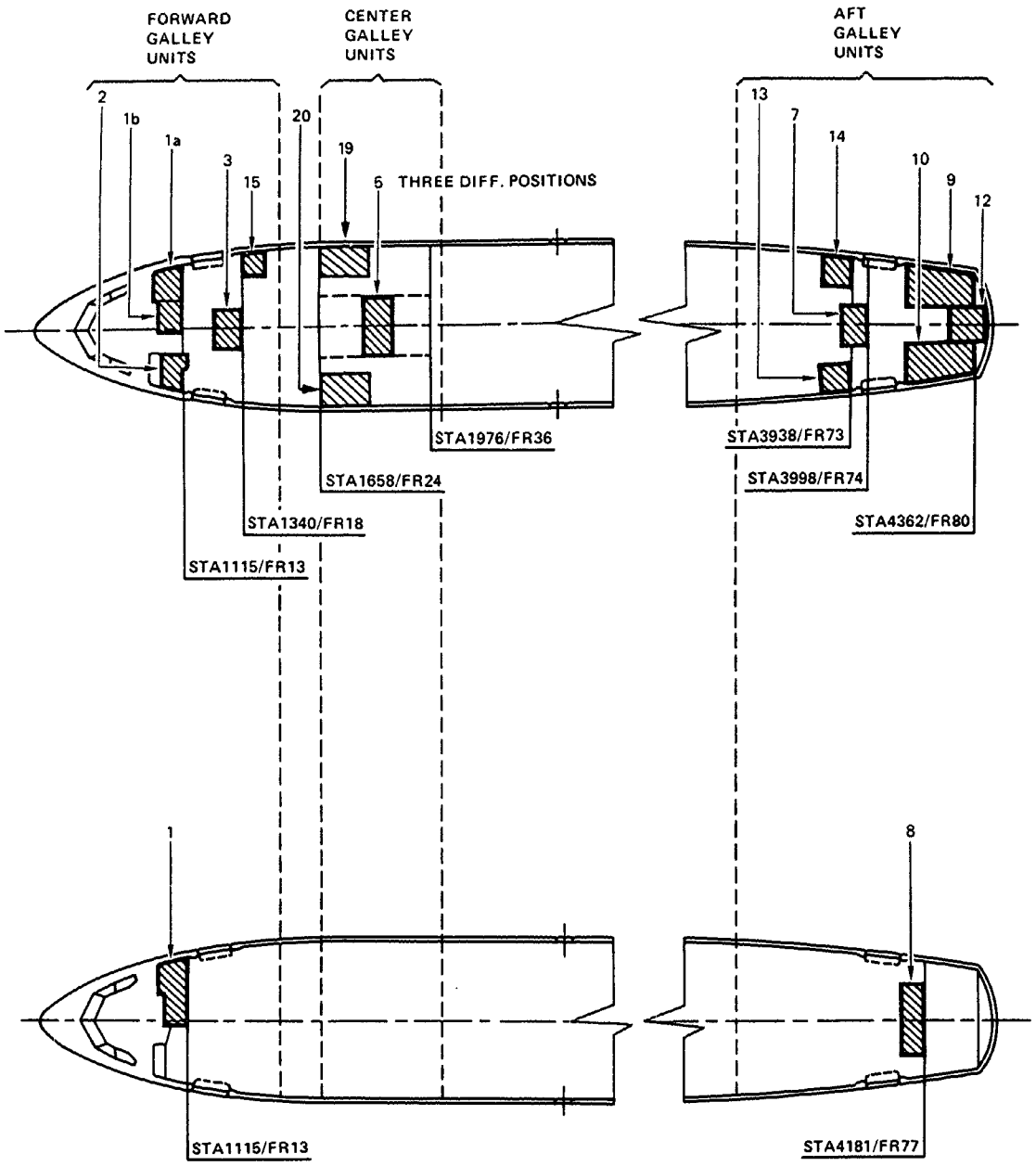
(b)Air Condition

Air conditioning is supplied to the galleys via the aircraft system (Ref. 21-27-00).

(c)Electrical Power

Electrical power is supplied to the galleys via the aircraft system (Ref. 24-56-00).

(3)Galley Equipment




Possible Galley Locations
Figure 001

Most of the galleys are provided with ovens, water heater etc. for the preparation of food and beverages (Ref. 25-34-00).
Some galleys are provided for storage only (Ref. 25-34-00).

## 1. Water Filter Cartridge Replacement

A. Reason for the Job
Replacement of galley water system filter cartridge is necessary after disinfecting of potable water system (Ref. 38-10-00, P. Block 301) or at scheduled maintenance periods.

B. Referenced Procedures
NOTE : Following referenced procedures apply for 'wet galleys' that may be installed.

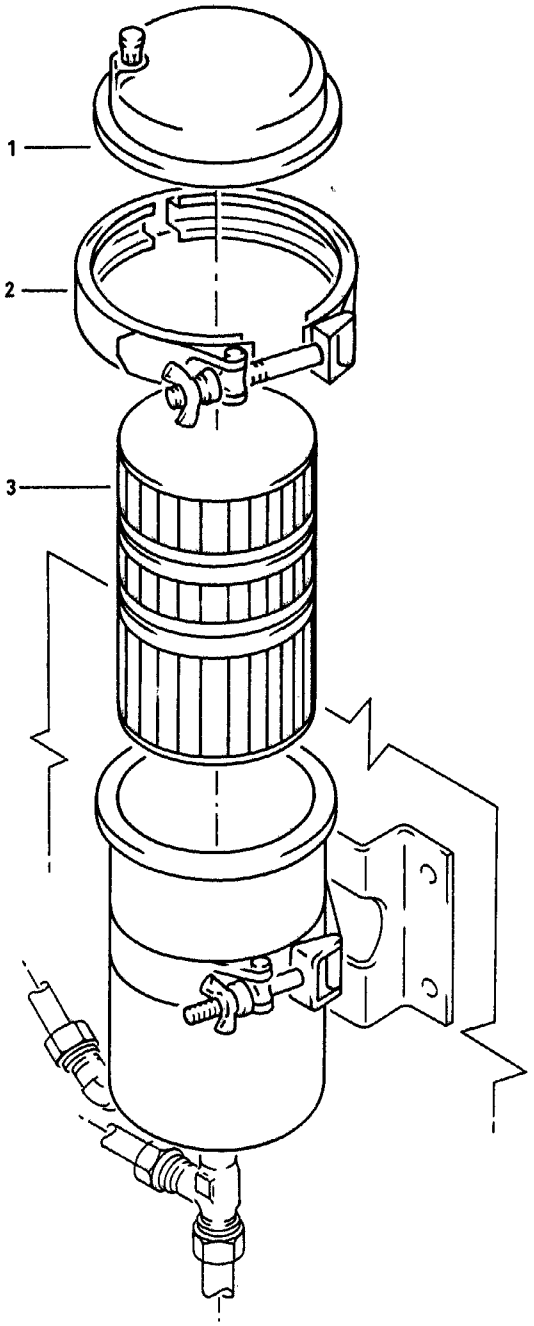
- 25-31-11, P. Block 401 Forward Galley Unit
- 25-31-12, P. Block 401 Forward Galley Unit
- 25-32-11, P. Block 401 Center Galley Unit
- 25-33-11, P. Block 401 AFT Galley Unit
- 38-10-00, P. Block 301 Potable Water System
- 38-40-00, P. Block 301 Air Supply

C. Procedure
(1)Job Set-Up
(a)Close galley water system shutoff valve (Ref. 25-31-11, P. Block 401, 25-31-12, P. Block 401, 25-32-11, P. Block 401, 25-33-11, P. Block 401).
(b)Open and empty appropriate galley compartments.
(2)Replace filter cartridge (Ref. Fig. 301).
(a)Release clamp (2).
(b)Remove filter cover (1).
(c)Replace filter cartridge (3).
(d)Install filter cover (1) and clamp (2)
(3)Close-Up
(a)Replace equipment in galley compartments.
(b)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(4)Leak Check
(a)Pressurize the potable water system (Ref. 38-40-00, P. Block 301).
(b)Open the galley water system shutoff valves (Ref. 25-31-11, P. Block 401, 25-31-12, P. Block 401, 25-32-11, P. Block 401 and 25-33-11, P. Block 401).
(c)Open the water faucets to bleed the water system.
(d)Examine the water filter for leaks.

NOTE : Leaks are not permitted.

(e)Release the pressure from the potable water system (Ref. 38-40-00, P. Block 301).
(f)Make certain that the working area is clean and clear of tools and miscellaneous items of equipment.
(Ref. Fig. 301)

R 2. Air Extraction Filter Replacement

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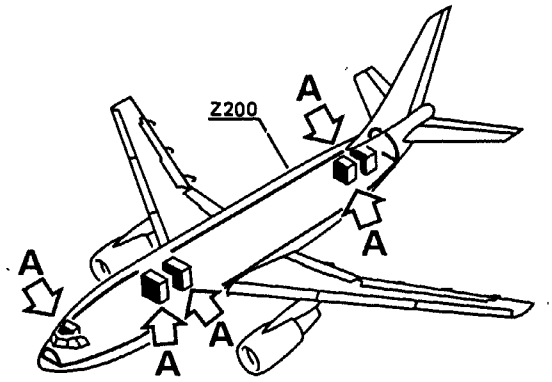
Filter Cartridge
Figure 301

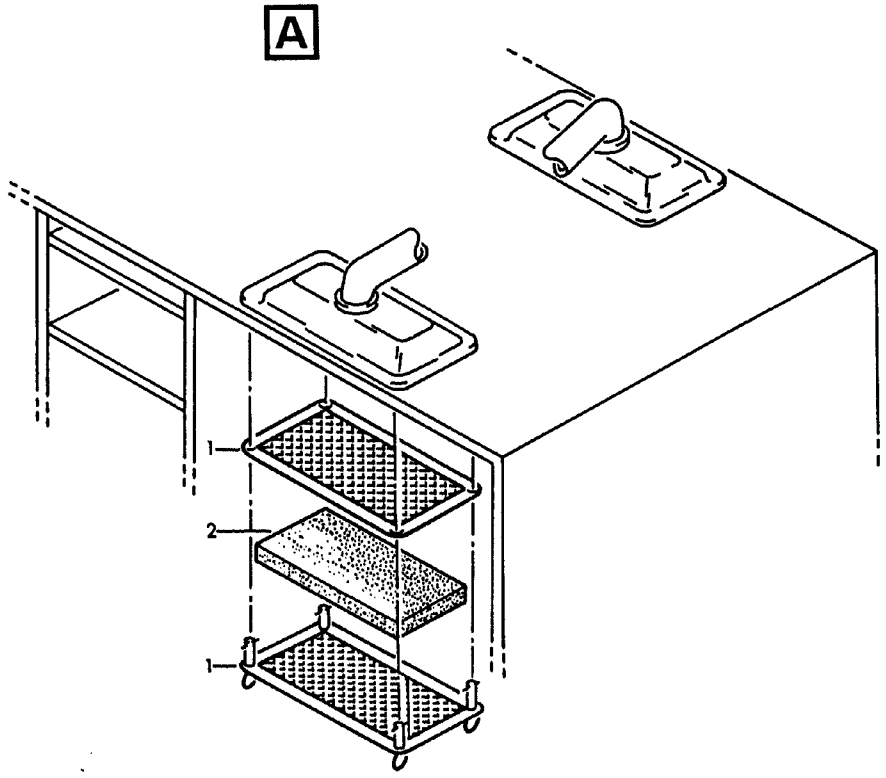
A. Reason for the Job
(1)Replacement of air extraction filter, after not sufficient extraction of fumes.
(2)Scheduled Maintenance

B. Procedure
(1)Job Set-Up
(a)Open and empty appropriate galley compartments.
R (b)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 131VU | VENTILATION-GALLEY & LAV FAN/SUPPLY | 11HU | 314/E60 |
| 131VU | VENTILATION-GALLEY & LAV FAN/CTL | 10HU | 314/E62 |

(2)Replace air extraction filter (Ref. Fig. 302).
(a)Disengage quick-release fasteners, remove screens (1) and filter pads (2).
(b)Remove dirt and dust from air inlet and outlet screens by blowing out with dry, clean, compressed air.
(c)Install new filter pads (2), screens (1) and engage quick-release fasteners.
R (3)Test
R (a)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
R (b)Make certain that electronics racks ventilation is correct.
R (c)Remove safety clips and tags and close circuit breakers 10HU and 11HU.
R (d)Check that ventilation fan operates.
R NOTE : The ventilation fan operates automatically with aircraft on ground.
(4)Close-Up
(a)Replace equipment in galley compartments.
(b)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
R (c)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(Ref. Fig. 302)




BM6 25 30 00 3 AANO 00

Typical Air Extraction Filter
Figure 302

R

1. Reason for the Job
   A. General visual inspection of galley extraction duct and duct connections.
   B. General visual inspection of attachment points.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Step Ladder |
| B. | Light Source-Inspection |
| C. | Mirror-Inspection |

Referenced Procedures

| | |
|---|---|
| 25-23-11, P. Block 401 | Ceiling Panels-Removal Installation |
| 25-23-13, P. Block 401 | Utility Area Ceiling Panels Removal/Installation |

3. Procedure
   A. General visual inspection of galley extraction duct and duct connections.
      (1)Job Set-Up
         (a)Open the applicable ceiling panels (Ref. 25-23-11, Pl Block 401) to get access to the relevant galley duct and duct connections.
      (2)General visual inspection
         (b)Visually examine the galley extraction duct and duct connections for:
         - damage
         - correct attachment
      (3)Close Up
         (a)Make sure that the working area is clean and clear of tool(s) and other items.
         (b)Close all ceiling panels, which have been opened in step A. (1). (Ref. 25-23-11, P. Block 401).
   B. General visual inspection of attachment points
      (1)Job Set-Up
         (a)Remove ceiling panels in galley area (Ref. 25-23-13, P. Block 401) to get access to the attachments.
         (b)Remove the relevant lower covers.
      (2)General Visual Inspection
         (a)Visually examine the attachment points for:
            - Make sure that the rods and attachment fittings are in the correct condition
            - Make sure that the supports, the bolts and the nuts are in the correct condition
            - Make sure that the quick-release pins are in the correct condition
            - Make sure that the bolts, the nuts, the supports, the rods and the attachment fittings are correctly installed.

(3)Close-Up
(a)Make sure that the working area is clean and clear of tool(s) and other items.
(b)Install the lower covers.
(c)Close all the ceiling panels, which were opened in step B. (1). (a) (Ref. 25-23-13, P. Block 401).

WARNING : GALLEY UNIT F1 WEIGHS APPROX. 171 kg (377 lb.).

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | O-Rings |
| D. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| G. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| J. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 12-24-38, P. Block 1 | Potable Water System - Draining |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-34-00, P. Block 501 | Galley Equipment |

2. Procedure

A. Job Set-Up

(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |
| 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |

(2)Drain aircraft potable water system (Ref. 12-24-38, P. Block 1).
(3)Empty galley compartments.
(4)Remove galley catering equipment.
(5)Remove curtains and curtain rails (Ref. 25-26-00, P. Block 1).
(6)Remove ceiling panels in galley area (Ref. 25-23-13, P. Block 401).

B. Removal

(1)Remove upper attachments (Ref. Fig. 401, 402).
  (a)Release clamp (3) and disconnect exhaust air hose (4).
  (b)Release clamp (2) and disconnect fresh air hose (1).
  (c)Remove lockwire and disconnect electrical connectors (16) 12MC-A, 13MC-A, 74MC-A, and 10ML-A.
  (d)Fit protective caps to disconnected hoses and electrical connectors.
  (e)Remove studs (30) and washers (29) and pull control panel (28) forward to gain access to access panel (8).
  (f)Remove screws (9) and access panel (8).
  (g)Remove pins (7) and disconnect tie-rods (6).
  (h)Remove screws (12), washers (11) and disconnect bonding straps (10).
(2)Disconnect water system at floor level (Ref. Fig. 402).
  (a)Remove screws (24), washers (23) and panels (22).
  (b)Remove screws (25), washers (26) and access cover (27).
  (c)Release clamp (37) and disconnect waste water line (38).
  (d)Disconnect fresh water line (36) at union (35).
  (e)Fit protective caps to disconnected lines and unions.
(3)Remove decor panel (Ref. Fig. 401, 403).
  (a)Remove carpets (71), screws (72), end caps (70), spacers and kick strips (73).
  (b)Remove decor strips (13), screws (14), trim strips (15) and decor panels (5).
(4)Remove lower adjustable attachments (Ref. Fig. 402, 403).
  (a)Remove screws (40), washers (41) and cover (39).
  (b)Remove sealant between sealing strips (56),(57) and floor covering.
  (c)Remove screws (51), seal retainers (53),(73) and sealing strips (54).
  (d)Remove screws (77),(81), washers (80) and covers (79) resp. bumpers (76) and covers (78).
  (e)Remove bolts (58), washers (59) and cover plates (60).
  (f)Remove shims (61) noting quantity at each location for subsequent installation.
  (g)Remove eccentric bushings (62) and eccentric washers (63).
  (h)Release clamps (43) and disconnect cooling ducts (42).
(5)Disconnect water system at splitline (Ref. Fig. 402).
  (a)Release clamp (37) and disconnect waste water line (38).
  (b)Disconnect fresh water line (36) at union (35).
  (c)Fit protective caps to disconnected lines and unions.
(6)Disconnect galley at splitline (Ref. Fig. 402).

NOTE : Splitline related items are colored red.

  (a)Remove sealant at galley splitline.
  (b)Remove screws (44) from upper galley section.

WARNING : GALLEY UNIT WEIGHS APPROX. 171 kg (377 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(7)Lift and support galley upper section.
(8)Remove galley lower section and then galley upper section.
(9)Remove lower attachments (Ref. Fig. 403).

(a)Remove shims (64), making note of quantity at each location for subsequent installation.
(b)Remove bolts (65), washers (67), saddles (66), O-rings (68) and bushes (69). Discard O-rings.

(Ref. Fig. 401)
(Ref. Fig. 402)
(Ref. Fig. 403)

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace if necessary (Ref. 25-28-12, P. Block 401).

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(2)Remove sealant remnants from floor covering and galley splitline using cleaning agent (Mat. No. 11-003).
(3)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.
(4)Make certain that placards on replaced or repaired components are in correct positions and in good condition.
(5)If necessary, install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Install lower attachments (Ref. Fig. 402, 403).
(a)Apply grease (Material No. 04-001) to threads of bolts (65).
(b)Install bushes (69) and new O-rings (68).
(c)Install saddles (66), washers (67), bolts (65) and shims (64) at previously noted locations.

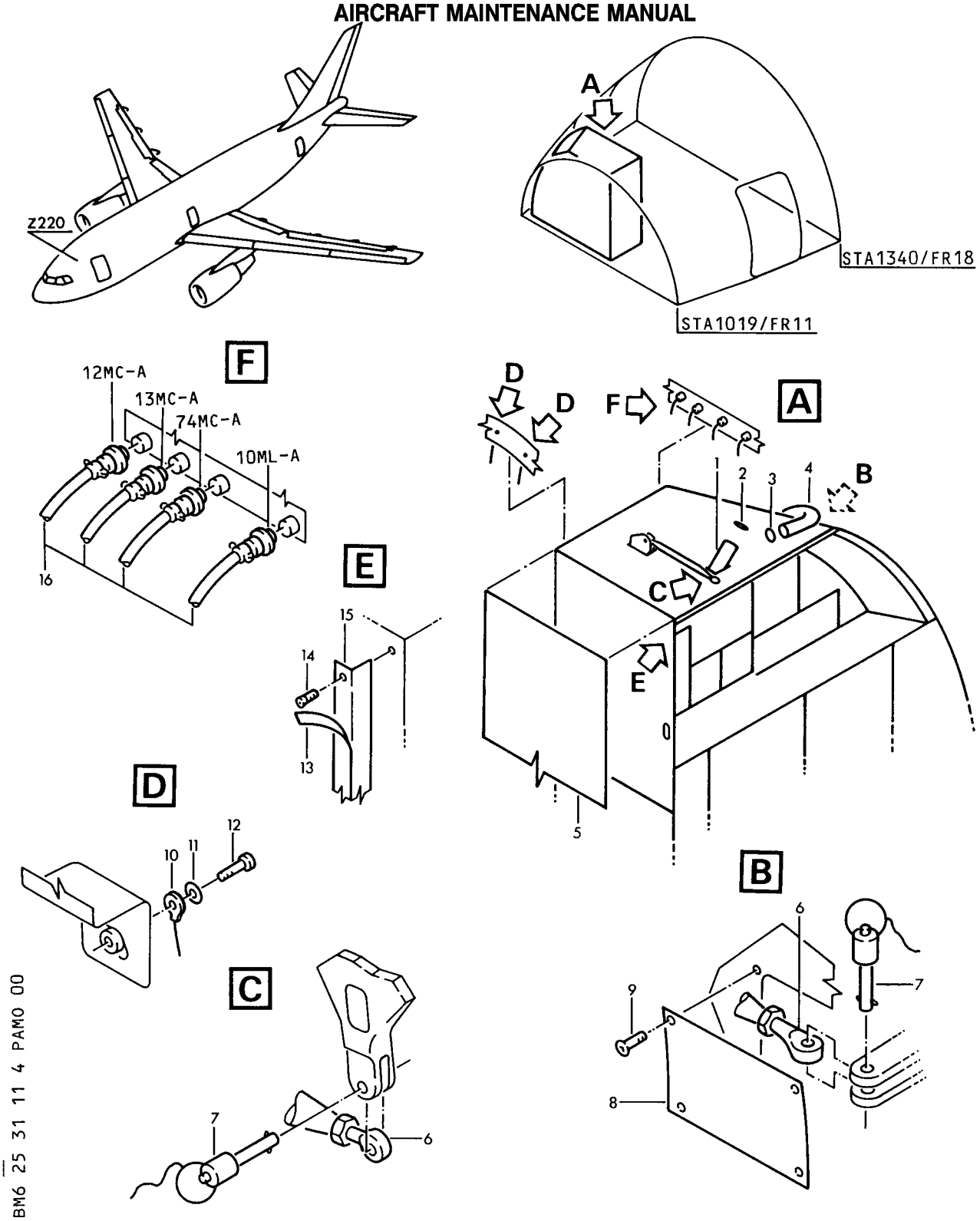
WARNING : GALLEY UNIT WEIGHS APPROX. 171 kg (377 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

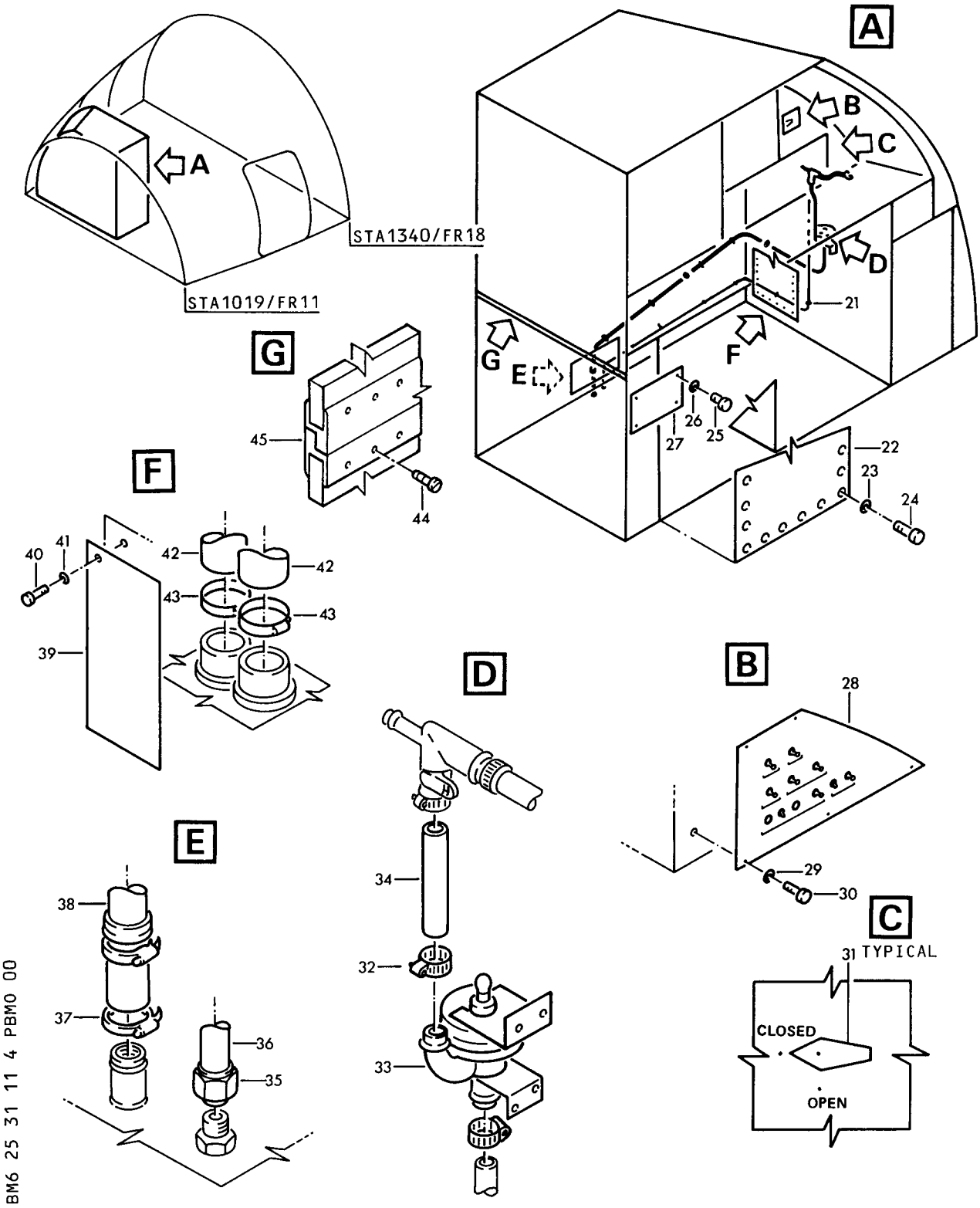
(2)Position and support galley upper section.
(3)Position galley lower section and then galley upper section.
(4)Connect galley at splitline (Ref. Fig. 402).
(a)Install screws (44).
(b)Apply sealant (Material No. 08-004) to galley splitline.
(5)Connect water system at splitline (Ref. Fig. 402).
(a)Remove protective caps from disconnected lines and unions.
(b)Wrap sealing tape (Material No. 05-022) around thread of union.
(c)Connect waste water line (34) and secure with clamp (32).
(d)Connect fresh water line (36) at union (21).
(6)Install lower adjustable attachments (Ref. Fig. 402, 403).
(a)Install eccentric washers (63) and eccentric bushings (62).

NOTE : Lateral adjustment is achieved at eccentric inserts.

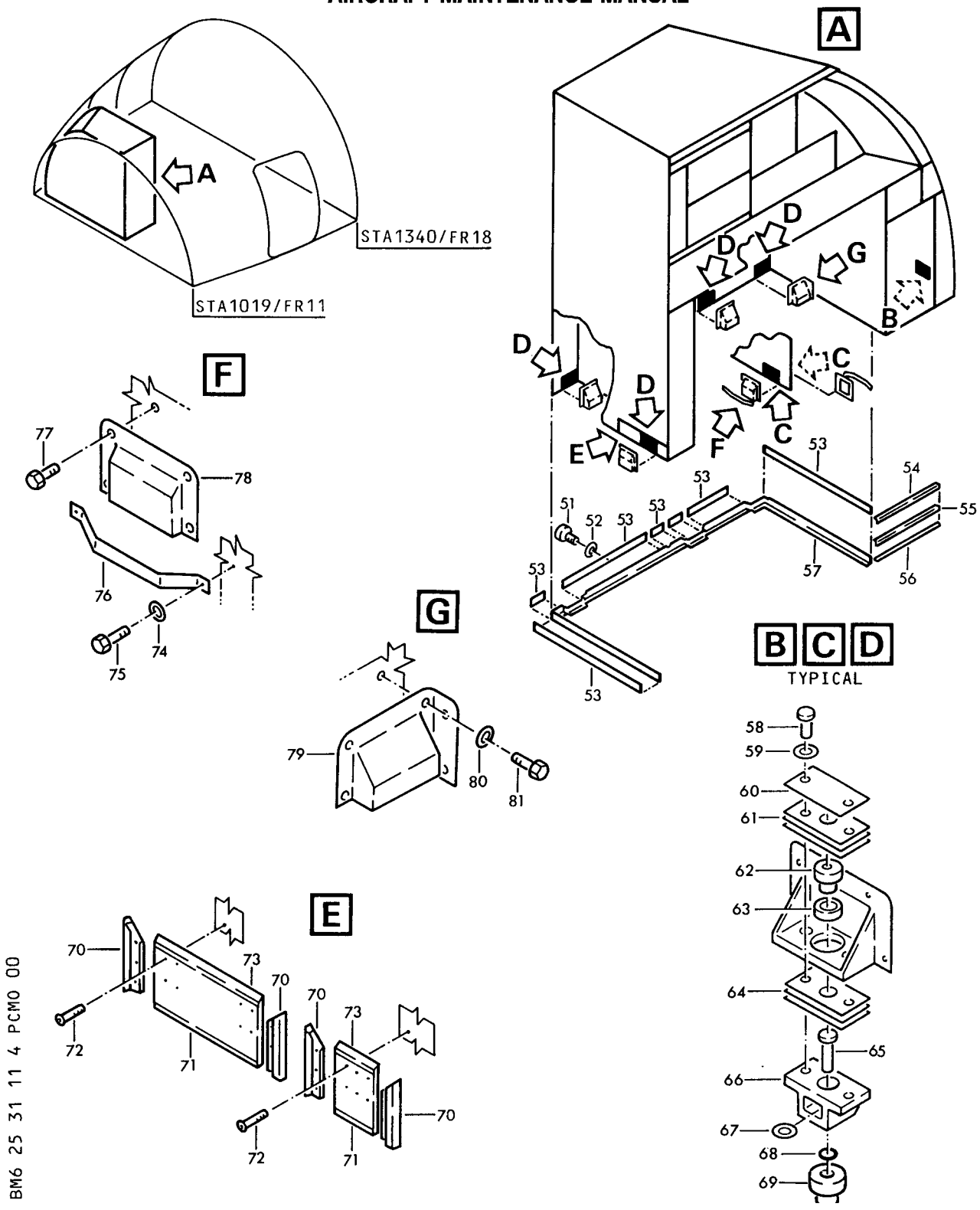
(b)Install shims (61) at previously noted locations, cover plates (60), washers (59) and screws (58).
(c)To prevent corrosion, apply protective compound (Mat. No. 15-008)




Upper Attachments
Figure 401




Water System and Splitline Attachments
Figure 402




Lower Attachments
Figure 403

to lower attachment fittings.
(d)Install covers (78),(79) and screws (77) resp. covers (78), bumpers (76), washers (74) and screws (75).
(e)Install sealing strips (57), seal retainers (53) and screws (51).
(f)Apply sealant (Material No. 04-008) to bond sealant strips (57) to floor covering.
(g)Connect cooling ducts (42) and secure with clamps (43).
(h)Install access door (39), washers (41) and screws (40).
(7)Install decor panel (Ref. Fig. 401, 403).
(a)Install decor panel (5), trim strips (15), screws (14) and decor strips (13).
(b)Install kick strips (73), spacers (71), screws (72), end caps (70) and carpets.
(8)Connect water system at floor level (Ref. Fig. 402).
(a)Remove protective caps from disconnected lines and unions.
(b)Wrap sealing tape (Material No. 05-022) around thread of union.
(c)Connect waste water line (38) and secure with clamp (37).
(d)Connect fresh water line (36) at union (35).
(e)Install access panel (27), washers (26) and screws (25).
(f)Install panel (22), washers (23) and screws (24).
(g)Make certain water shutoff valve (31) is in the OPEN position.
(9)Install upper attachments (Ref. Fig. 401).
(a)Install bonding straps (10), washers (11) and screws (12) (Ref. 20-28-11, P. Block 1).
(b)Connect tie-rods (6) and install pins (7).

NOTE : Adjust tie-rods, if necessary.

(c)Install access panel (8) and screws (9).
(d)Remove protective caps from disconnected hoses and electrical connectors.
(e)Connect electrical connectors (16) 12MC-A, 13MC-A, 74MC-A and 10ML-A and safety with lockwire 0.6 mm (0.024 in.) dia.
NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).
(f)Connect exhaust air hose (1) and secure with clamp (2).
(g)Connect fresh air hose (4) and secure with clamp (3).
(10)Install galley catering equipment.
(11)Replenish aircraft water system (Ref. 12-15-38, P. Block 1).

E. Test
(1)Carry out galley equipment operational tests (Ref. 25-34-00,
R P. Block 501).

F. Close-Up
(1)Install ceiling panels in galley area (Ref. 25-23-13, P. Block 401).
(2)Install curtain rails and curtains, if removed (Ref. 25-26-00, P. Block 1).
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

WARNING : GALLEY UNIT WEIGHS APPROX. 103 kg (227 1b.).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | O-Rings |
| D. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia. |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| G. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| J. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 12-24-38, P. Block 1 | Potable Water System - Draining |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-34-00, P. Block 501 | Galley Equipment |

2. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |
| 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |

(2)Drain aircraft potable water system (Ref. 12-24-38, P. Block 1).
(3)Empty galley compartments.
(4)Remove galley catering equipment.
(5)Remove curtains and curtain rails (Ref. 25-26-00, P. Block 1).
(6)Remove ceiling panels in galley area (Ref. 25-23-13, P. Block 401).

B. Removal
(1)Remove upper attachments (Ref. Fig. 401).
(a)Disconnect working light connectors (1).
(b)Remove screws (3) and pelmet (2).

(c)Release clamp (4) and disconnect exhaust air hose (5).
(d)Release clamp (6) and disconnect fresh air hose (7).
(e)Remove nuts (13), washers (12), bolts (11) and disconnect tie-rods (14).
(f)Remove lockwire and disconnect electrical connnectors (15) 12MC-A, and 13MC-A.
(g)Fit protective caps to disconnected hoses and electrical connectors.
(h)Remove screws (8), washers (9) and bonding straps (10).

(2)Disconnect water system (Ref. Fig. 402).
(a)Remove screws (2) and access panel (3).
(b)Release clamp (6) and disconnect waste water line (5).
(c)Disconnect fresh water line (7) at union (8).
(d)Fit protective caps to disconnected lines and unions.

(3)Remove lower galley attachments (Ref. Fig. 402).
(a)Open access door (1) and remove waste container.
(b)Remove sealant between sealing strips (12) and floor covering.
(c)Remove screws (9) and covers (10).
(d)Remove screws (11), seal retainers (13) and sealing strips (12).
(e)Remove nuts (20), washers (15), screws (14) and cover plates (16).
(f)Remove eccentric inserts (26) and eccentric bushes (25).

WARNING : GALLEY UNIT WEIGHS APPROX. 103 kg (227 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(4)Using strips of teflon or similar material to ease sliding, remove galley unit.

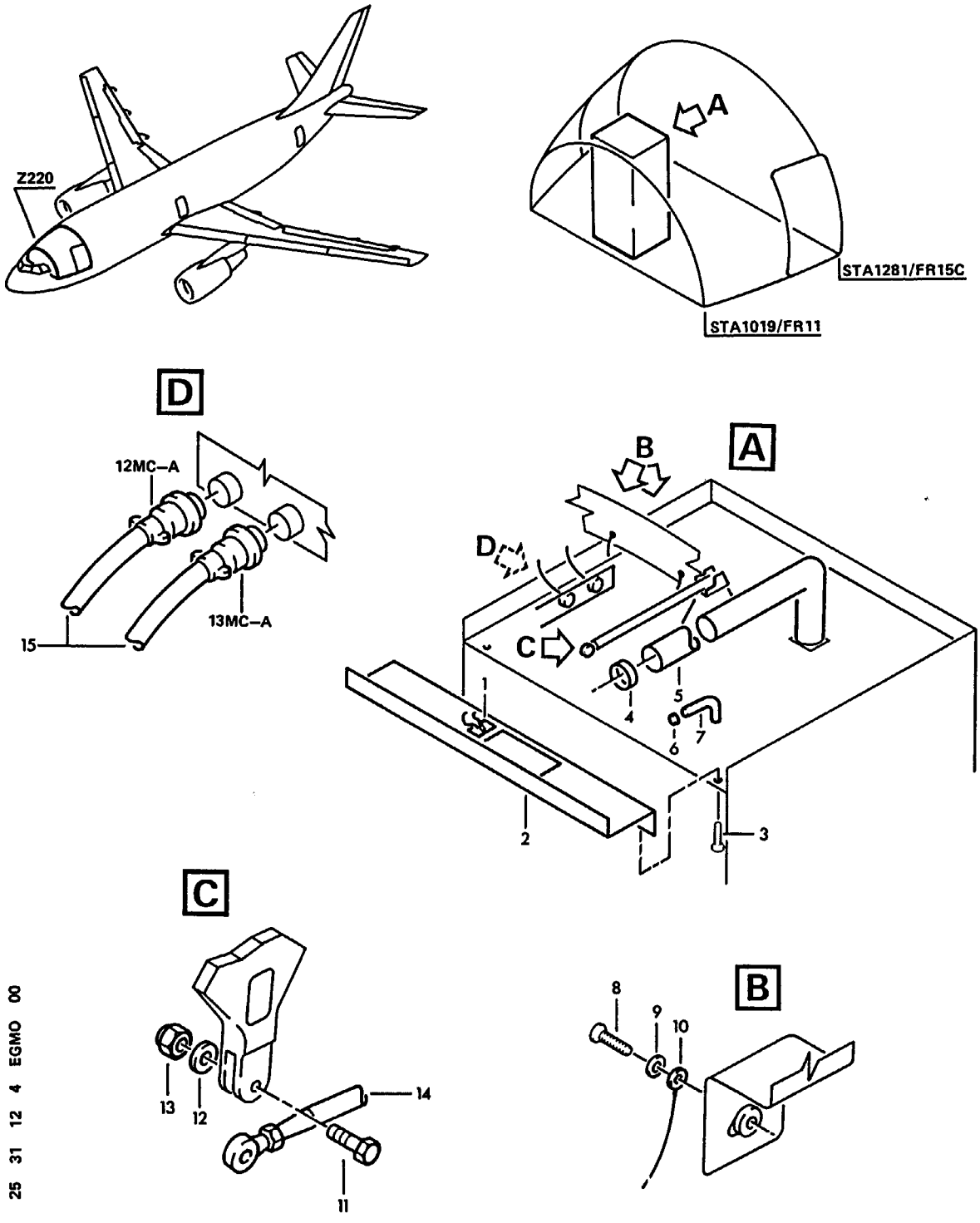
(5)Remove floor attachments (Ref. Fig. 402).
(a)Remove shims (17) noting quantity at each location for subsequent installation.
(b)Remove bushes (24).
(c)Remove bolts (18), washers (19) and fittings (23).
(d)Remove O-rings (22) and bushes (21). Discard O-rings.

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(6)Remove sealant remnants from nontextile floor covering using cleaning agent (Mat. No. 11-003).
(Ref. Fig. 401)
(Ref. Fig. 402)

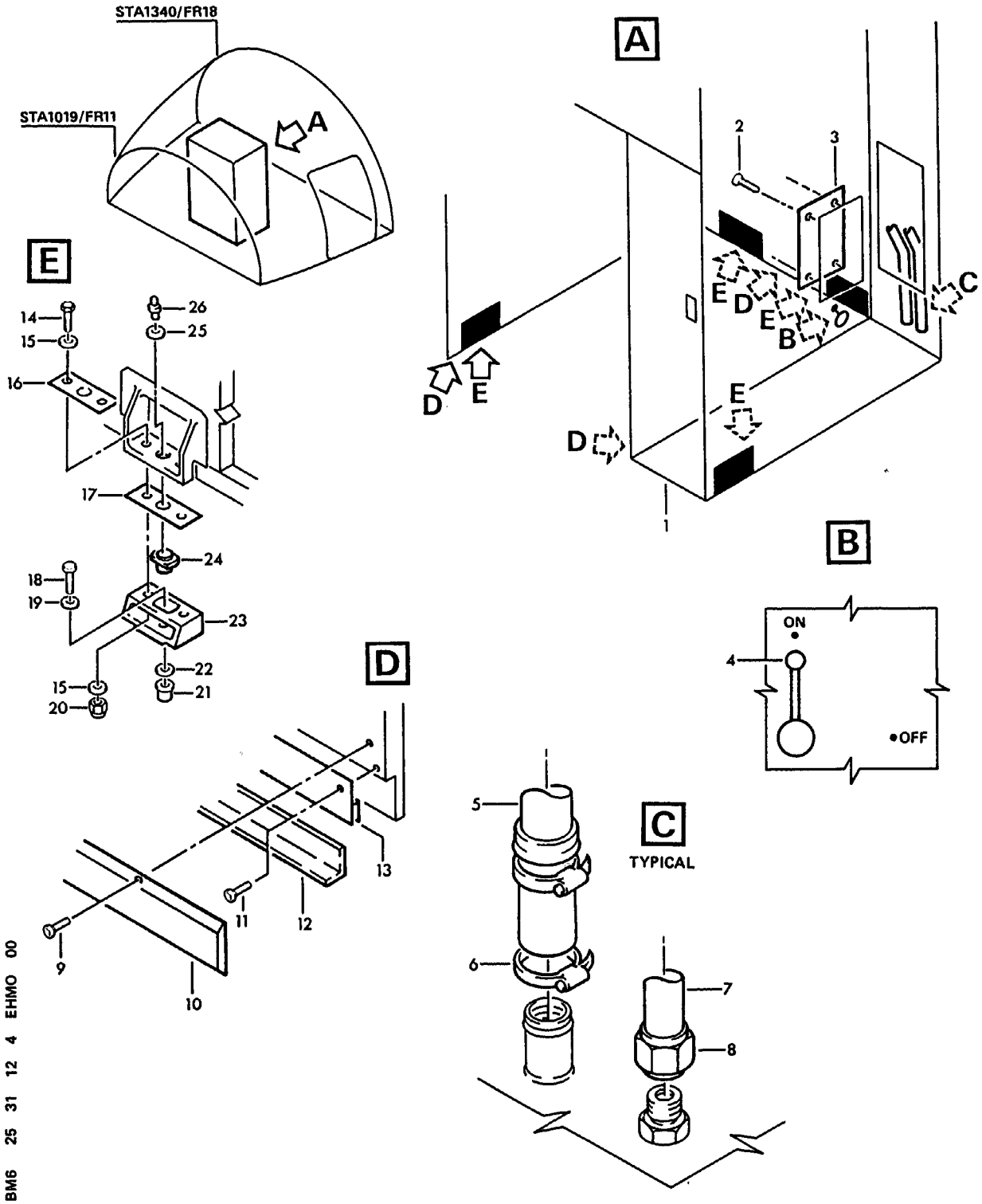
C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace if necessary (Ref. 25-28-12, P. Block 401).
(2)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(3)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(4)Make certain that installation is clean and clear of tools and miscellaneous items of equipment.

D. Installation
(1)Install floor attachments (Ref. Fig. 402).
(a)Apply grease (Mat. No. 04-001) to threads of bolts (18).
(b)Install bushes (21) and new O-rings (22).
(c)Install fittings (23), washers (19) and bolts (18).
(d)Install bushes (24).




BM6 25 31 12 4 EGMO 00

Upper Attachments
Figure 401




Lower Attachments
Figure 402

(e)Install shims (17) making certain that quantity at each location is as noted during removal.

WARNING : GALLEY UNIT WEIGHS APPROX. 103 kg (227 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(2)Using strips of teflon or similar material to ease sliding, position galley unit.

(3)Install lower adjustable attachments (Ref. Fig. 402).

(a)Install eccentric bushes (25) and eccentric inserts (26).

NOTE : Lateral alignment is achieved at eccentric bushes and inserts.

(b)Install cover plates (16), washers (15), screws (14) and nuts (20).

(c)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.

(d)Install sealing strips (12), seal retainers (13) and screws (11).

(e)Apply sealant (Mat. No. 08-004) to bond sealing strips (12) to nontextile floor covering.

(f)Install covers (10) and screws (9).

(4)Connect water system (Ref. Fig. 402).

(a)Remove protective caps from disconnected lines and unions.

(b)Wrap sealing tape (Mat. No. 05-022) around threads of unions.

(c)Connect waste water line (5) and secure with clamp (6).

(d)Connect fresh water line (7) at union (8).

(e)Make certain that water shut-off valve (4) is in the ON position.

(f)Install access cover (3) and screws (2).

(g)Replace waste container and close access door (1).

(5)Install upper attachments (Ref. Fig. 401).

(a)Install bonding straps (10), washers (9) and screws (8) (Ref. 20-28-11, P. Block 1).

(b)Connect tie-rods (14), install bolts (11), washers (12) and nuts (13).

NOTE : Adjust tie-rods, if necessary.

(c)Remove protective caps from disconnected hoses and electrical connectors.

(d)Connect electrical connectors (15) 12MC-A, 13MC-A and secure with lockwire 0.6mm (0.024 in.) dia.

NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).

(e)Install fresh air hose (7) and secure with clamp (6).

(f)Install exhaust air hose (5) and secure with clamp (4).

(g)Install pelmet (2) and screws (3).

(h)Connect working light connectors (1).

(6)Install galley equipment.

(7)Replenish aircraft potable water system (Ref. 12-15-38, P. Block 1).

E. Test

(1)Carry out galley equipment operational tests (Ref. 25-34-00, P. Block 501).

F. Close-Up

(1)Install ceiling panels in galley area (Ref. 25-23-11, P. Block 401).

(2)Install curtain rails and curtains, if removed (Ref. 25-26-00, P. Block 1).

(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

R **ON A/C 101-200,

WARNING : GALLEY UNIT WEIGHS APPROX. 136.5 kg (301 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia. |
| D. | O-Rings |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| G. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| R H. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

R **ON A/C 001-100,

WARNING : GALLEY UNIT WEIGHS APPROX. 126 kg (277 lb.).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia |
| D. | O-Rings |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| G. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| H. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 25-34-00, P. Block 501 | Galley Equipment |
| - 23-36-13, P. Block 401 | Video Monitor |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |

- 33-51-17, P. Block 401 Floor Escape Path Marking - Lighting

R **ON A/C 101-200,

Referenced Procedures
R - 11-00-00, P. Block 1 Placards and Markings - General
- 20-28-11, P. Block 1 Electrical Bonding
- 25-26-00, P. Block 1 Curtains and Partitions
- 25-28-12, P. Block 401 Nontextile Floor Covering

R **ON A/C 001-100,

2. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | EMER LT-EXIT LT | 20WL | E27 |
| 22VU | EMER LT-EXIT LT | 21WL | E28 |
| 132VU | LIGHTING-EMER LT-EXIT LT CHARGER | 24WL | L75 |
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |
| 133VU | ELEC/GALLEY/CNTOR | 52MC | V78 |
| 800VU | VIDEO CONT CTR | 1MM | D 6 |
| 800VU | VIDEO CONT CTR | 5MM | D 7 |

(2)Empty galley compartments.
(3)Remove galley catering equipment.
(4)Remove curtains and curtain rails (Ref. 25-26-00, P. Block 1).
(5)Remove ceiling panels in galley area (Ref. 25-23-13, P. Block 401).

R **ON A/C 101-200,

R 2. Procedure

R A. Job Set-Up
R (1)Open, safety and tag the following circuit breakers:

| R PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| R 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |
| R 133VU | ELEC/GALLEY/CTL | 1XM | V79 |

R (2)Empty galley compartments.
R (3)Remove galley catering equipment.
R (4)Remove curtains and curtain rails, if necessary (Ref. 25-26-00,
R P. Block 1).

R B. Removal
R (1)Remove upper attachments (Ref. Fig. 402).
R (a)Release clamp (6) and disconnect exhaust air hose (5).
R (b)Release clamp (7) and disconnect fresh air hose (8).
R (c)Remove pip pins (14) and disconnect tie-rods (13).
R (d)Remove bolts (13), washers (11), nuts (9) and attachment assemblies (35),(37).
R (e)Remove lockwire and disconnect electrical connectors (4) 14MC-A and 15MC-A.
R (f)Disconnect electrical connector (15) 6605VC-A.
R (g)Install protective caps to disconnected hoses and electricl connectors.
R (h)Remove screws (1), washers (2) and bonding straps (3).
R (2)Remove lower galley attachments (Ref. Fig. 404).
R (a)Remove carpet (32), screws (31) and caps (30) and kickstrip (33).
R (b)Remove sealant between sealing strips (26),(29) and floor covering.
R (c)Remove screws (22),(23), covers (24) and spacers (21).
R (d)Remove screws (28) and washers (27), seal retainers (25) and sealing strips (26) and (29).
R (e)Remove screws (34) and covers (38) resp. screws (36), washers (37) bumpers (35) and covers (38).
R (f)Remove bolts (52), washers (51), and cover plates (50).
R (g)Remove shims (49) noting quantity at each location for subsequent installation.
R (h)Remove eccentric bushings (48) and eccentric washers (46).

R WARNING : GALLEY UNIT WEIGHS APPROX. 136.5 kg (301 lb.).
R CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

R (3)Using strips of teflon or similar material to ease sliding, remove galley unit.
R (4)Remove floor attachments (Ref. Fig. 404).
R (a)Remove shims (44) noting quantity at each location for subsequent installation.
R (b)Remove bolts (43), washers (41) and saddles (42).
R (c)Remove O-rings (40) and bushes (39). Discard O-rings.

R WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

R (5)Remove sealant remnants from nontextile floor covering using cleaning agent (Mat. No. 11-003).

R **ON A/C 001-100,

B. Removal
(1)Remove upper attachments (Ref. Fig. 401).
(a)Remove screws (2) and pelmet (1).
(b)Release clamp (5) and disconnect exhaust air hose (6).
(c)Release clamp (4) and disconnect fresh air hose (3).
(d)Remove pip pins (15) and disconnect tie-rods (14).
(e)Remove bolts (13) and attachment assemblies (12).

(f)Remove lockwire and disconnect electrical connectors (8) 14MC-A and 15MC-A.
(g)Disconnect electrical connector (11) 6605VC-A.
(h)Fit protective caps to disconnected hoses and electricl connectors.
(j)Remove screws (7), washers (8) and bonding straps (9).
(2)Remove lower galley attachments (Ref. Fig. 403).
(a)Remove sealant between sealing strips (4) and floor covering.
(b)Remove screws (1) and covers (2).
(c)Remove screws (3), seal retainers (5) and sealing strips (4).
(d)Remove nuts (12), washers (7, 11), screws (6) and cover plates (8).
(e)Remove eccentric inserts (19) and eccentric bushes (18).
WARNING : GALLEY UNIT WEIGHS APPROX. 120 kg (264 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(3)Using strips of teflon or similar material to ease sliding, remove galley unit.
(4)Remove floor attachments (Ref. Fig. 403).
(a)Remove shims (17) noting quantity at each location for subsequent installation.
(b)Remove bushes (16).
(c)Remove bolts (9), washers (10) and fittings (15).
(d)Remove O-rings (14) and bushes (13). Discard O-rings.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(5)Remove sealant remnants from nontextile floor covering using cleaning agent (Mat. No. 11-003).
(Ref. Fig. 401)

R **ON A/C 101-200,

R (Ref. Fig. 402)

R **ON A/C 001-100,

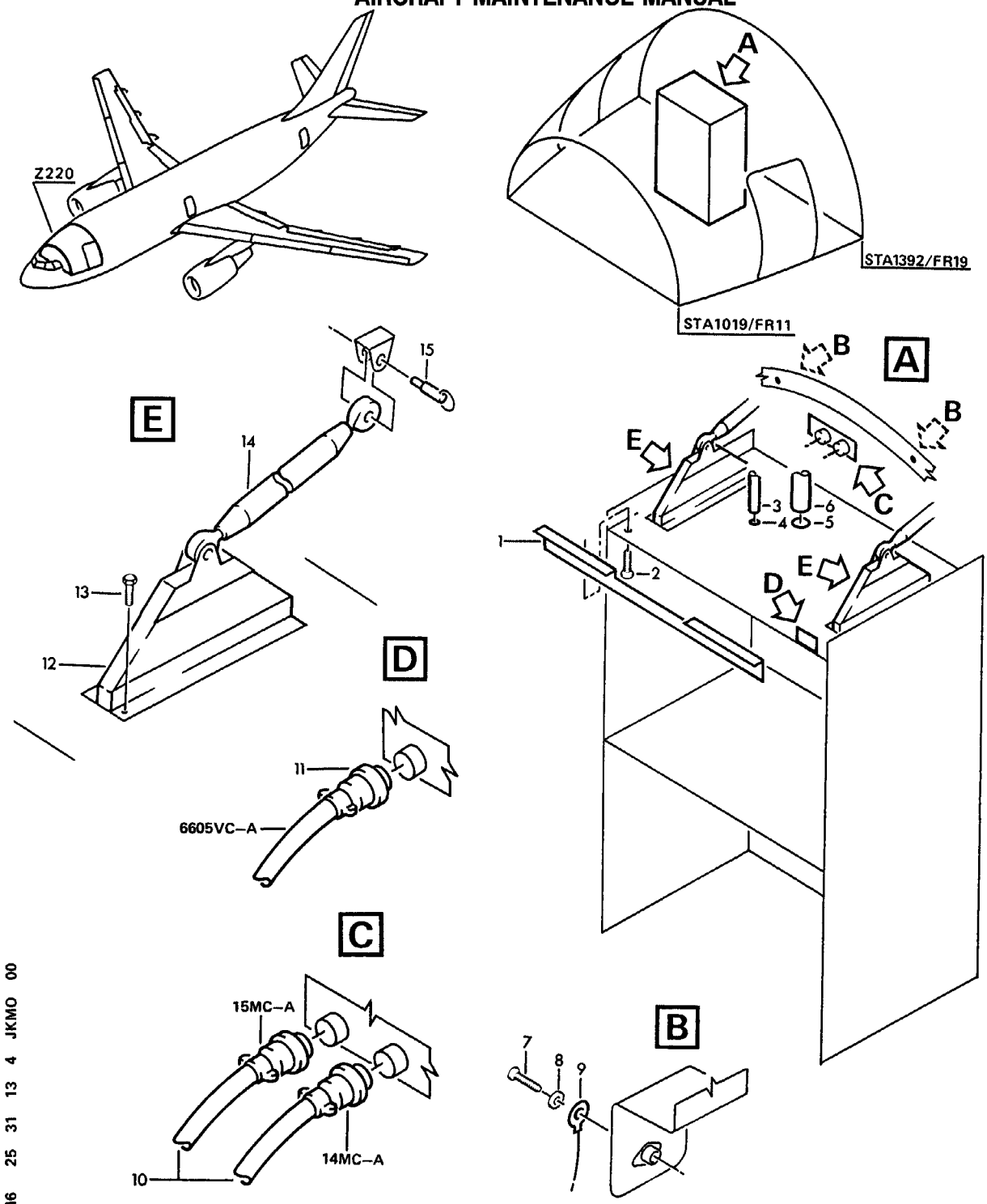
(Ref. Fig. 403)

R **ON A/C 101-200,

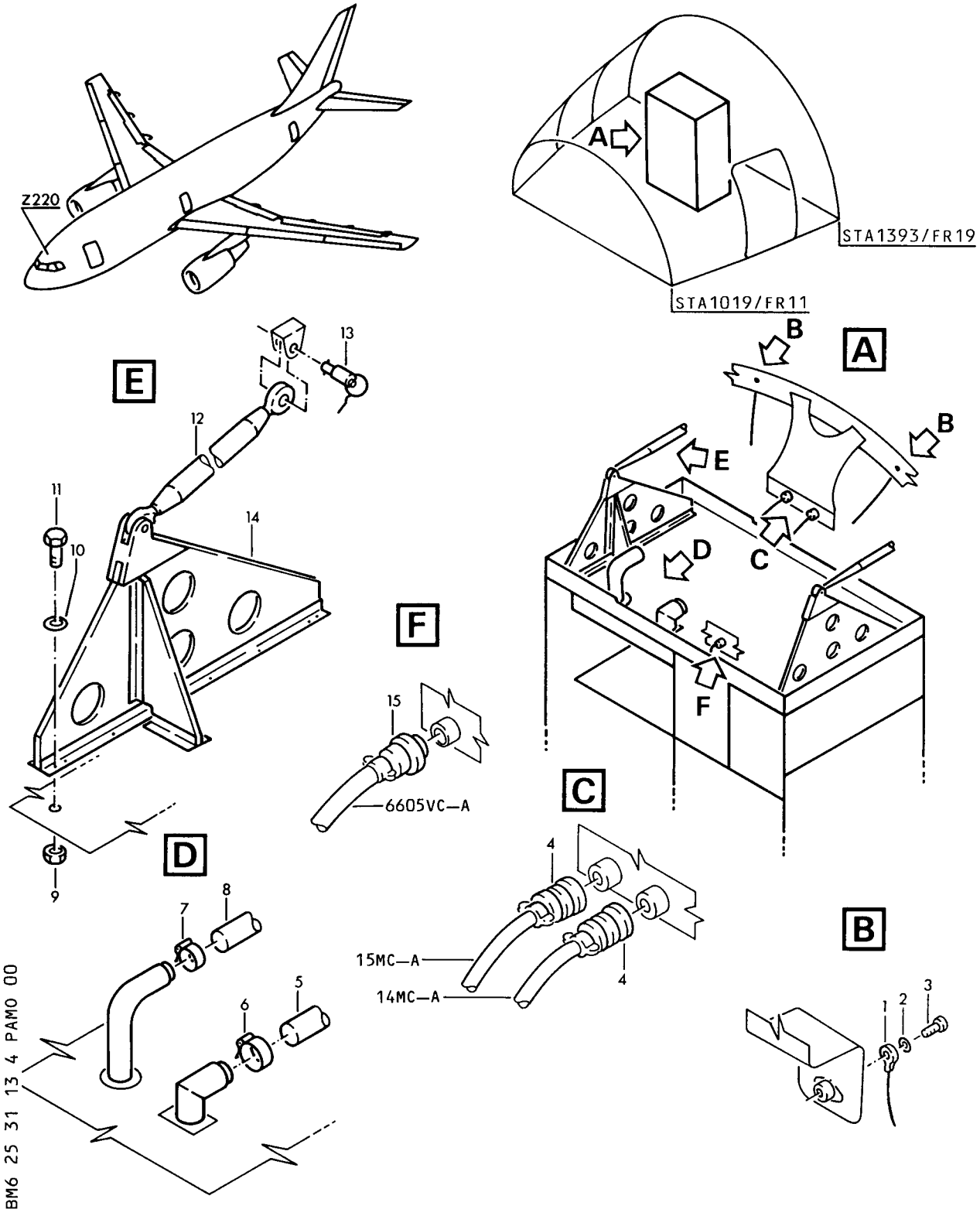
R (Ref. Fig. 404)

R **ON A/C ALL

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
(2)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.
(3)Make certain that placards on replaced or repaired components are in correct positions and in good condition.
(4)If necessary, install new placards (Ref. 11-00-00, P. Block 1).

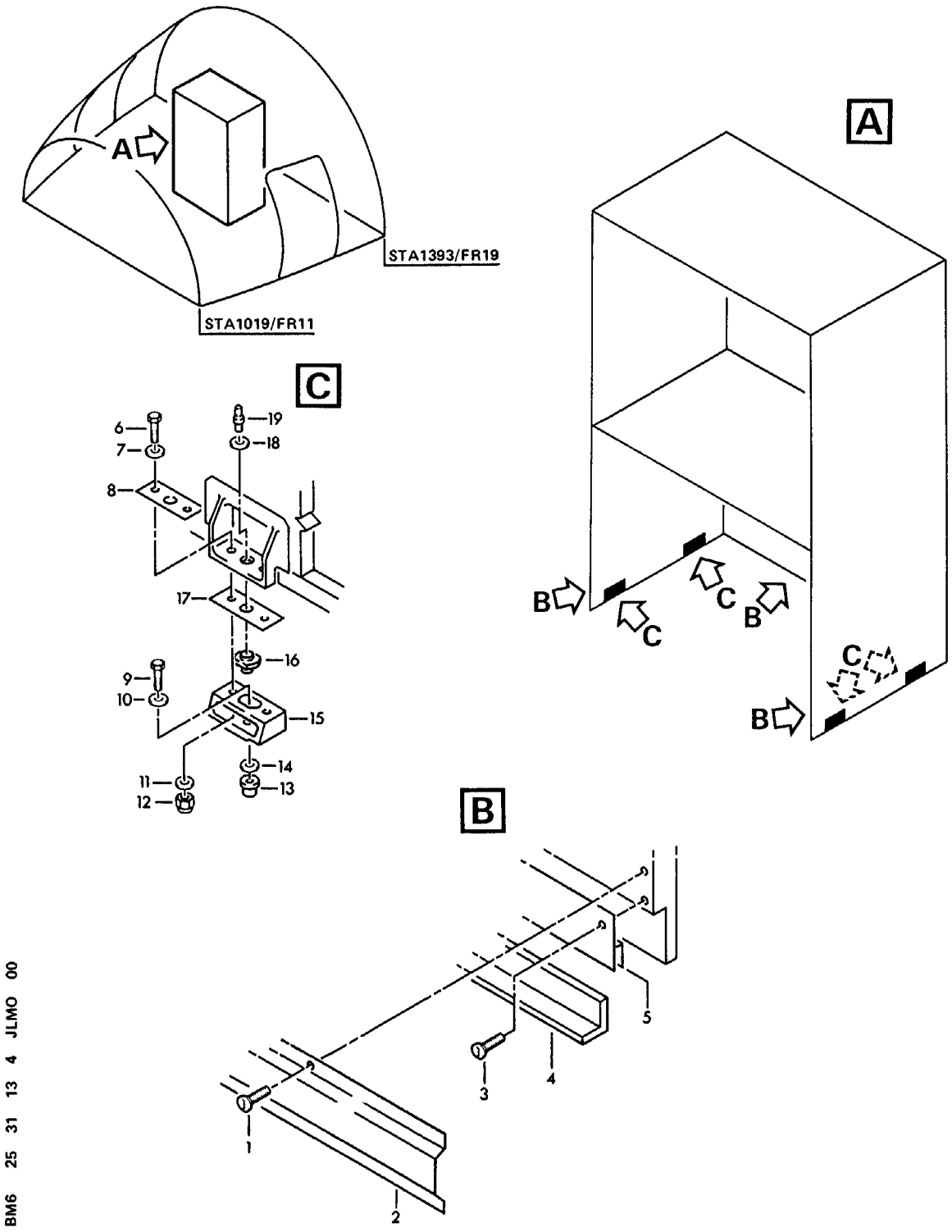



Upper Attachmants
Figure 401



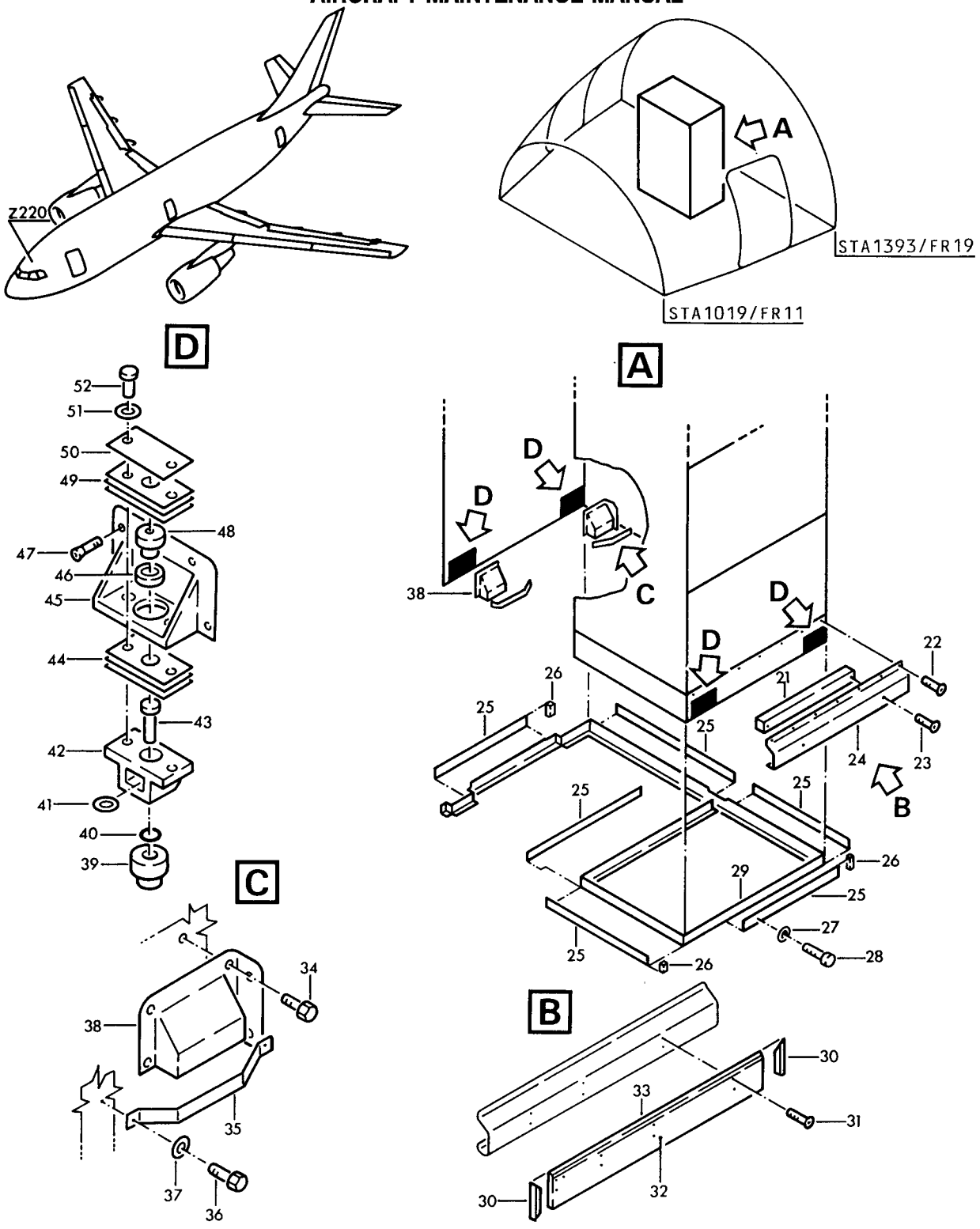

Upper Attachments
Figure 402

R




BM6 25 31 13 4 JLMO 00

Lower Attachments
Figure 403




BM6 25 31 13 4 PBMO 00

Lower Attachments
Figure 404

R

R **ON A/C 001-100,

D. Installation
(1)Install floor attachments (Ref. Fig. 403).
(a)Apply grease (Mat. No. 04-001) to threads of bolts (9).
(b)Install bushes (13) and new O-rings (14).
(c)Install fittings (15), washers (10) and bolts (9).
(d)Install bushes (16).
(e)Install shims (17) making certain that quantity at each location is as noted during removal.
WARNING : GALLEY UNIT WEIGHS APPROX. 120 kg (264 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Using strips of teflon or similar material to ease sliding, position galley unit.
(3)Install lower adjustable attachments (Ref. Fig. 403).
(a)Install eccentric bushes (18) and eccentric inserts (19).
NOTE : Lateral alignment is achieved at eccentric bushes and inserts.
(b)Install cover plates (8), washers (11, 7), screws (6) and nuts (12).
(c)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(d)Install sealing strips (4), seal retainers (5) and screws (3).
(e)Apply sealant (Mat. No. 08-004) to bond sealing strips (4) to nontextile floor covering.
(f)Install covers (2) and screws (1).
(4)Install upper attachments (Ref. Fig. 401).
(a)Install bonding straps (9), washers (8) and screws (7) (Ref. 20-28-11, P. Block 1).
(b)Install attachment assemblies (12) and bolts (13).
(c)Connect tie-rods (14) and install pip-pins (15).
NOTE : Adjust tie-rods, if necessary.
(d)Remove protective caps from disconnected hoses and electrical connectors.
(e)Connect electrical connector (11) 6605VC-A.
(f)Connect electrical connectors (10) 15MC-A, 14MC-A and secure with lockwire 0.6mm (0.024 in.) dia.
NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).
(g)Install exhaust air hose (6) and secure with clamp (5).
(h)Install fresh air hose (3) and secure with clamp (4).
(j)Install pelmet (1) and srews (2).
(5)Install galley equipment.

R **ON A/C 101-200,

D. Installation
(1)Install floor attachments (Ref. Fig. 404).
(a)Apply grease (Material No. 04-001) to threads of bolts (43).
(b)Install bushes (39) and new O-rings (40).

(c)Install saddles (42), washers (41) and bolts (43).
(d)Install shims (44) making certain that quantity at each location is as noted during removal.

WARNING : GALLEY UNIT WEIGHS APPROX. 136.5 kg (301 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(2)Using strips of teflon or similar material to ease sliding, position galley unit.
(3)Install lower adjustable attachments (Ref. Fig. 404).
(a)Install eccentric bushings (48) and eccentric washers (46).

NOTE : Lateral alignment is achieved at eccentric bushes and inserts.

(b)Install shims (49) at previously noted locations.
(c)Install cover plates (50), washers (51) and bolts (52).
R (d)To prevent corrosion, apply protective compound (Mat. No. 15-008)
R to lower fittings.
R (e)Install sealing strips (26) and (29), seal retainers (25) and screws (28) with washers (27).
R (f)Apply sealant (Material No. 08-004) to bond sealing strips (26) and (29) to nontextile floor covering.
R (g)Install covers (48) and screws (49) resp. covers (35), bumpers (32), washers (34) and screws (33).
R (h)Install spacer (21), cover (24) and screws (23),(22).
R (j)Install kickstrip (33), screws (31) and caps (30) and carpet (32).
(4)Install upper attachments (Ref. Fig. 402).
(a)Install bonding straps (3), washers (2) and screws (1) (Ref. 20-28-11, P. Block 1).
(b)Install attachment assemblies (10), washers (11), screws (12) and nuts (9).
(c)Connect tie-rods (13) and install pip-pins (14).

NOTE : Adjust tie-rods, if necessary.

(d)Remove protective caps from disconnected hoses and electrical connectors.
(e)Connect electrical connector (15) 6605VC-A.
(f)Connect electrical connectors (4) 15MC-A, 14MC-A and secure with lockwire 0.6mm (0.024 in.) dia.
NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).
(g)Install exhaust air hose (5) and secure with clamp (6).
(h)Install fresh air hose (8) and secure with clamp (7).

R E. Test
R (1)Carry out galley equipment operational tests (Ref. 25-34-00,
R P. Block 501).

R **ON A/C 001-100,

E. Test
(1)Carry out galley equipment operational tests (Ref. 25-34-00, P. Block 501).
(2)Carry out escape path marking light operational tests (Ref, 33-51-17, P. Block 401).
(3)Carry out video monitor operational tests (Ref. 23-36-13, P. Block 401).

F. Close-Up
(1)Install ceiling panels in galley area (Ref. 25-23-13, P. Block 401).
(2)Install curtain rails and curtains, if removed (Ref. 25-26-00, P. Block 1).
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

R **ON A/C 101-200,

R F. Close-Up
R (1)Install curtain rails and curtains, if removed, (Ref. 25-26-00,
R P. Block 1).
R (2)Make certain that working area is clean and clear of tools and
R miscellaneous items of equipment.

R **ON A/C 001-100,

WARNING : GALLEY UNIT WEIGHS APPROX. 190 kg (418 lb.).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

R **ON A/C 101-200,

R WARNING : GALLEY UNIT WEIGHS APPROX. 272 kg (599 lb.).

R WARNING : CLEANING AGENT (MATERIAL NO. 11-003) IS DANGEROUS.

R CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

R **ON A/C 001-100,

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia. |
| D. | O-Rings |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| G. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| J. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

R **ON A/C 101-200,

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia. |
| D. | O-Rings |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| G. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| R H. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

R **ON A/C 001-100,

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 12-24-38, P. Block 1 | Potable Water System - Draining |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 23-43-00, P. Block 501 | Cabin and Flight Crew Call System |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-11, P. Block 401 | Ceiling Panels |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-27-17, P. Block 401 | Doghouse |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-34-00, P. Block 501 | Galley Equipment |
| - 23-36-13, P. Block 401 | Video Monitor |
| - 33-26-00, P. Block 501 | Passenger Lighted Signs |
| - 33-27-00, P. Block 501 | Cabin Attendant Work Lights |
| - 53-10-16, P. Block 601 | Seat Tracks |

R **ON A/C 101-200,

R Referenced Procedures

| | |
|---|---|
| R - 11-00-00, P. Block 1 | Placards and Markings - General |
| R - 12-15-38, P. Block 1 | Replenishing Potable Water |
| R - 12-24-38, P. Block 1 | Potable Water System - Draining |
| R - 20-28-11, P. Block 1 | Electrical Bonding |
| R - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| R - 25-26-00, P. Block 1 | Curtains and Partitions |
| R - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| R - 25-32-12, P. Block 401 | Center Galley Unit |
| R - 33-27-00, P. Block 501 | Cabin Attendant Work Lights |
| R - 53-10-16, P. Block 601 | Seat Tracks |

R **ON A/C 001-100,

2. Procedure

A. Job Set-Up

(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 21VU | CALLS/CABIN | 1RM | J 7 |
| 132VU | PASSENGER SIGNS/RETURN TO SEAT | 29WJ | P82 |
| 132VU | PASSENGER SIGNS/NO SMOKING | 31WJ | P80 |
| 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |
| 800VU | CABIN LIGHT POWER/ENTRY | 20LG | A 9 |
| 800VU | CABIN LIGHT CONTR/ENTRY | 21LG | A10 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | READING LIGHT/ATTN | 1LZ | C13 |

(2)Drain aircraft potable water system (Ref. 12-24-38, P. Block 1).
(3)Empty galley compartments.
(4)Remove galley catering equipment.
(5)Remove curtains and curtain rails, if necessary, (Ref. 25-26-00, P. Block 1).
(6)Remove ceiling panels in galley area (Ref. 25-23-11, P. Block 401 and Ref. 25-23-13, P. Block 401).
(7)Remove video monitor (Ref. 25-36-13, P. Block 401).
(8)Remove cabin attendant seats (Ref.25-21-61, P. Block 401).
(9)Remove doghouse (Ref.25-27-17, P. Block 401).

R **ON A/C 101-200,

R 2. Procedure

R A. Job Set-Up
R (1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |

R (2)Drain aircraft potable water system (Ref. 12-24-38, P. Block 1).
R (3)Empty galley compartments.
R (4)Remove galley catering equipment.
R (5)Remove curtains and curtain rails, if necessary, (Ref. 25-26-00, P. Block 1).
R (6)Remove pelmet assembly (Ref. 25-32-12, P. Block 401).

R **ON A/C 001-100,

B. Removal
(1)Remove center galley pelmet assembly and partition (Ref. Fig. 401).
(a)Remove screws (3), washers (4) and panels (5).
(b)Disconnect electrical connectors (14) 890LG-A, 894LG-A, 6576VC-A and 6607VC-A.
(c)Fit protective caps to disconnected electrical connectors.
(d)Disconnect pelmet light units, withdraw cable looms (15) and stow on top of galley unit.
(e)Disconnect electrical connectors above panel (16).
(f)Remove screws (22), washers (23) and panel (16).
(g)Remove screws (1) and frame components (2).
(h)Remove screws (6, 17, 19), washers (7, 18, 20) and pelmet

components (21).
(j)Remove covers (8) pulling free from Velcro tape.
(k)Remove bolts (9) and washers (10).
(l)Remove partition (13).
(m)Mark position of seat track fittings (12) and remove with anchor fittings (11).
(2)Remove upper attachments (Ref. Fig. 403).
(a)Release clamp (1) and disconnect exhaust air hose (2).
(b)Release clamp (3) and disconnect fresh air hose (4).
(c)Remove lockwire and disconnect electrical connectors (8), 20MC-A and 21MC-A.
(d)Fit protective caps to disconnected hoses and electrical connectors.
(e)Remove pip pins (12) and disconnect tie-rods (11).
(f)Remove bolts (9) and attachment assemblies (10).
(g)Remove screws (5), washers (6) and bonding straps (7).
(3)Remove decor panels (Ref. Fig. 407).
(a)Remove screws (13) and handles (14).
(b)Remove decor strips (4), screws (12) and trim strips (3).
(c)Remove screws (22, 23) and folding step (24).
(d)Remove screws (7), washers (8) and bumper strips (6).
(e)Remove screws (11), washers (10) and covers (9).
(f)Remove screws (18) and cover strips (19, 21).
(g)Remove sealant between sealing strips (20) and floor covering.
(h)Remove sealing strips (20).
(j)Remove screws (16) and washers (15).
(k)Remove screws (5), trim strips (1) and decor panels (2).
(4)Disconnect water system (Ref. Fig. 405).
(a)Remove screws (5) and access panel (4).
(b)Disconnect fresh water line (6) at unions (1, 7).
(c)Release clamps (3, 8) and disconnect waste water line (9).
(d)Fit protective caps to disconnected lines and unions.
(5)Remove lower galley attachments (Ref. Fig. 408).
(a)Remove bolts (1), washers (2) and bushes (3).
(b)Remove screws (7), washers (8, 18), nuts (17) and cover plates (9).
(c)Remove eccentric inserts (10) and eccentric bushes (11).
(6)Disconnect galley at splitline (Ref. Fig. 407).
(a)Remove sealant from galley splitline.
(b)Remove screws (17).
NOTE : Splitline screws are colored red.
WARNING : GALLEY UNIT WEIGHS APPROX. 190 kg (418 lb.)
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(7)Lift and support galley upper section.
(8)Remove galley lower section and then galley upper section.
(9)Remove floor attachments (Ref. Fig. 408).
(a)Remove shims (12) noting quantity at each location for subsequent installation.
(b)Remove eccentric inserts (4, 13).
(c)Remove bolts (14), washers (15) and fitting (16).
(d)Remove O-rings (5) and bushes (6). Discard O-rings.

R **ON A/C 101-200,

R B. Removal
R (1)Remove galley pelmet assembly (Ref. Fig. 402).
R (a)Remove screws (7), washers (8) and covers in pelmet ceiling to free
R latches (5).
R (b)Turn latches (5) 90° and lower pelmet section (16) until pelmet
R section (16) hangs with safety catches (22) in catches (17).
R (c)Push safety catches (22) back free from catches (17) and lower pelmet
R section (16) fully.
R (d)Disconnect electrical connector (23), 890LG-A.
R (e)Install protective cap to disconnected electrical connector.
R (f)Remove screws (11), washers (10) and piano hinge half (12)
R from galley unit.
R (g)Remove seal strip (15) from pelmet section (16). Discard seal strip.
R (h)Remove screws (24), washers (25) and frame components (26).
R (2)Remove upper attachments (Ref. Fig. 404).
R (a)Release clamp (47) and disconnect exhaust air hose (48).
R (b)Release clamp (50) and disconnect fresh air hose (49).
R (c)Cut and remove lockwire and disconnect electrical connectors (31)
R 21MC-A, 20MC-A, 6696VC-A and 894LG-A.
R (d)Install protective caps to disconnected hoses and electrical
R connectors.
R (e)Remove pip pins (32) and disconnect tie-rods (33).
R (f)Remove screws (37), washers (38) and disconnect bonding straps (39).
R (3)Remove decor panels (Ref. Fig. 404).
R (a)Remove decor strips (36) to gain access to screws (35) and trim
R strips (34).
R (b)Remove fillers (41) to gain access to screws (40).
R (c)Remove screws (40) and tracks (44).
R (d)Remove screws (35) and trim strips (34).
R (e)Remove decor panels (42).
R (4)Disconnect water system (Ref. Fig. 409)

R NOTE : Make sure that the water shut-off valve is in CLOSED position.

R (a)Remove screws (96), washers (97) and panel (95).
R (b)Remove screws (96), washers (97) and panel (103).
R (c)Disconnect fresh waterline (99) at union (100).
R (d)Release clamp (101) and disconnect waste water hose (102).
R (e)Release clamp (110) and disconnect waste water hose (111).
R (f)Release clamp (92) and disconnect waste water line (91).
R (g)Disconnect fresh water line (104) at union (105).
R (h)Release clamp (107) and disconnect waste water line (106).
R (j)Install protective caps to disconnected lines, hoses and unions.
R (5)Remove lower galley attachments (Ref. Fig. 406)
R (a)Remove screws (53), kickstrips (52) and end caps (51).
R (b)Remove sealant between sealing strips (83) and floor covering.
R (c)Remove screws (82), retainers (80) and sealing strips (83).

R (d)Remove screws (76) and covers (72) resp. screws (74),
R washers (73), bumpers (75) and covers (72).
R (e)Remove nuts (71) and washers (70).
R (f)Remove bolts (54), washers (55) and cover plates (56).
R (g)Remove shims (57) noting quantity at each location for subsequent
R installation.
R (h)Remove eccentric bushings (58) and eccentric washers (59).
R (6)Disconnect galley at splitline (Ref. Fig. 409)

R NOTE : Splitline related items are coloured red.

R (a)Remove sealant at splitline.
R (b)Remove screws (108).

R WARNING : GALLEY UNIT WEIGHTS APPROX. 272 kg (599 lb).

R CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

R (7)Lift and support galley upper section.
R (8)Remove galley lower section and then galley upper section.
R (9)Remove floor attachments (Ref. Fig. 406)
R (a)Remove shims (61) noting quantity at each location for subsequent
R installation.
R (b)Remove nuts (63), washers (64) and saddles (62).
R (c)Remove O-rings (65) and washers (66).
R (d)Remove eccentric bushings (69),(68), O-rings (65) and washers (66).
R Discard O-rings.
R (e)Mark location of studs (67) and remove.

R **ON A/C 001-100,

(Ref. Fig. 401)

R **ON A/C 101-200,

R (Ref. Fig. 402)

R **ON A/C 001-100,

(Ref. Fig. 403)

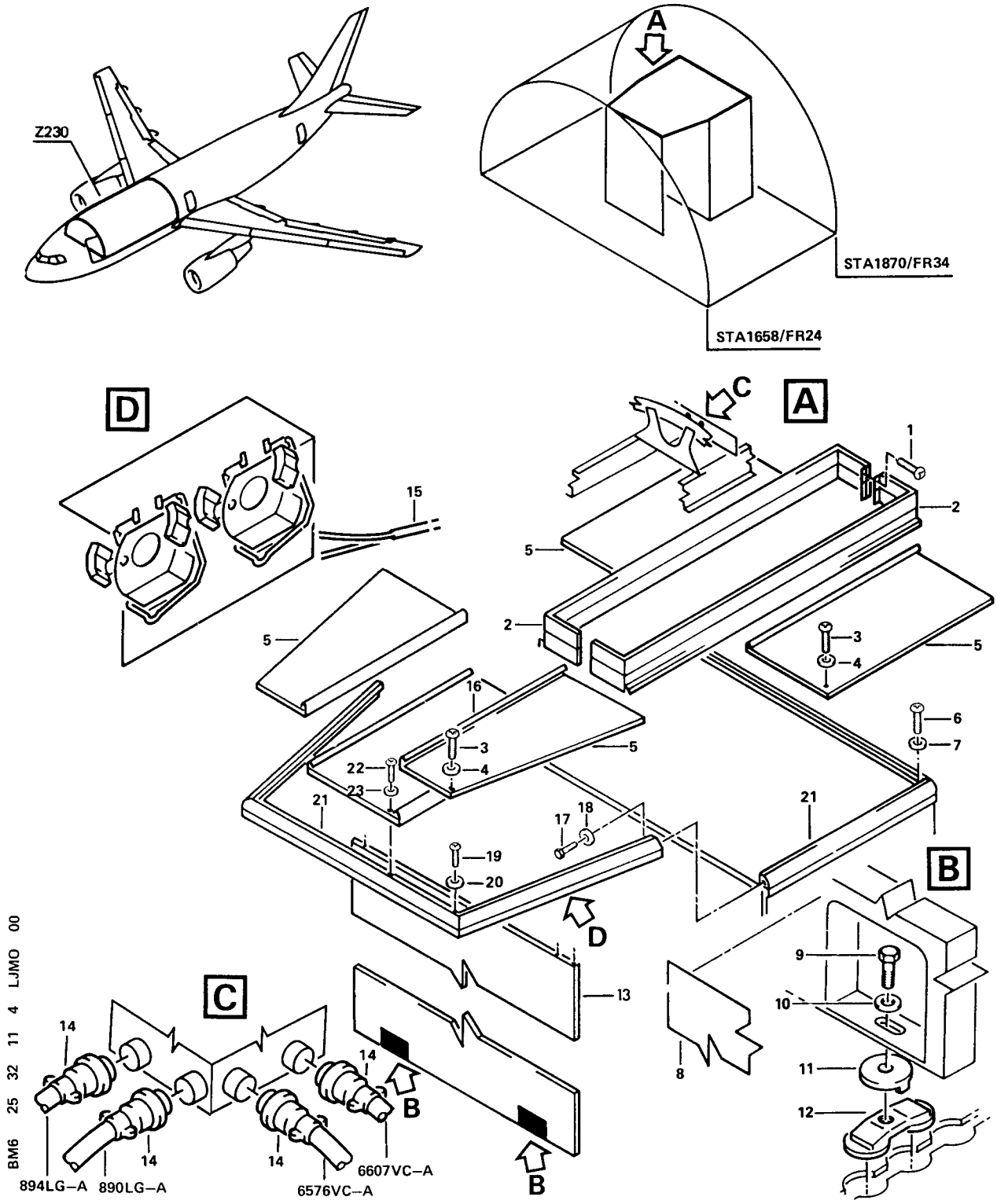
R **ON A/C 101-200,

R (Ref. Fig. 404)

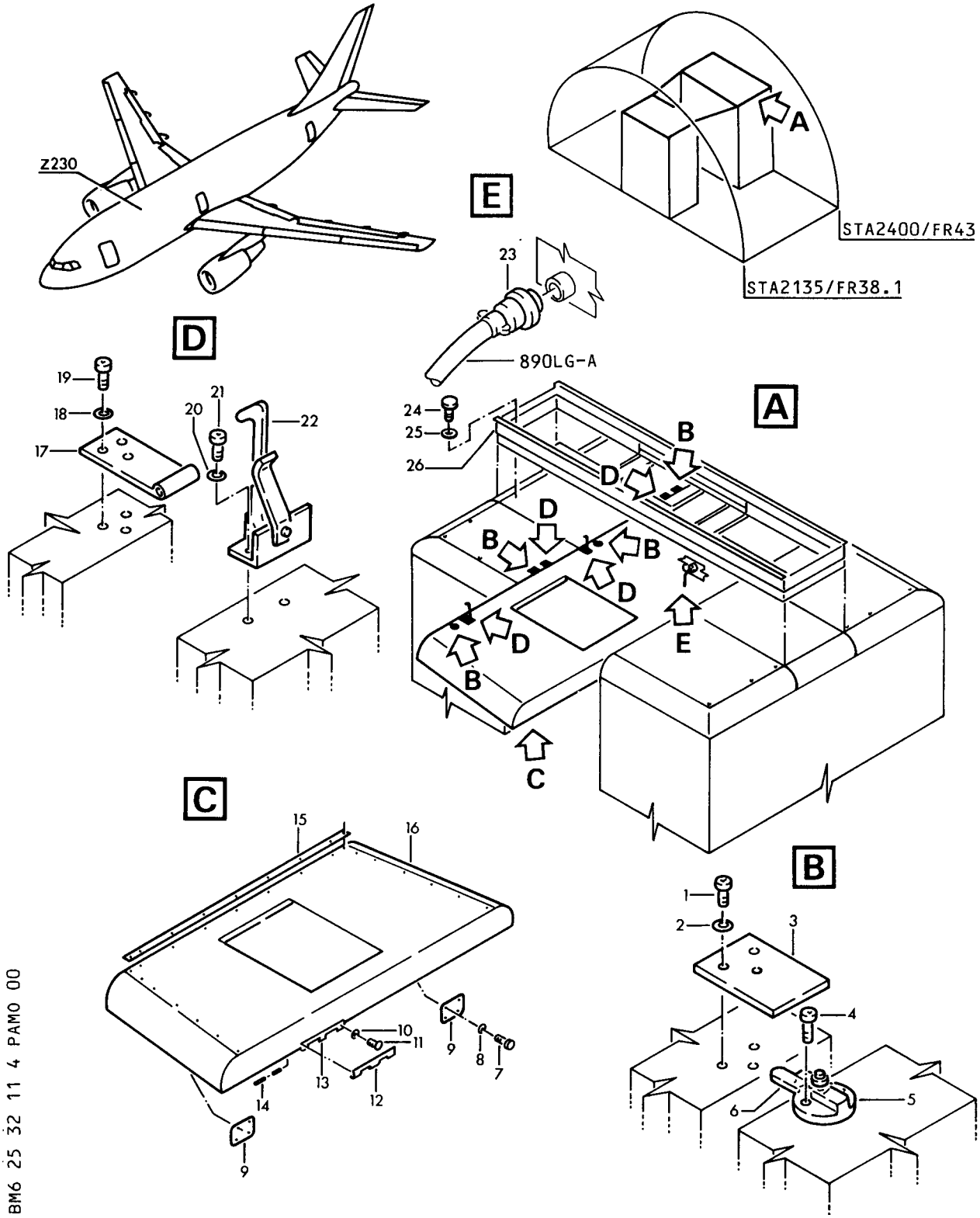
R **ON A/C 001-100,

(Ref. Fig. 405)

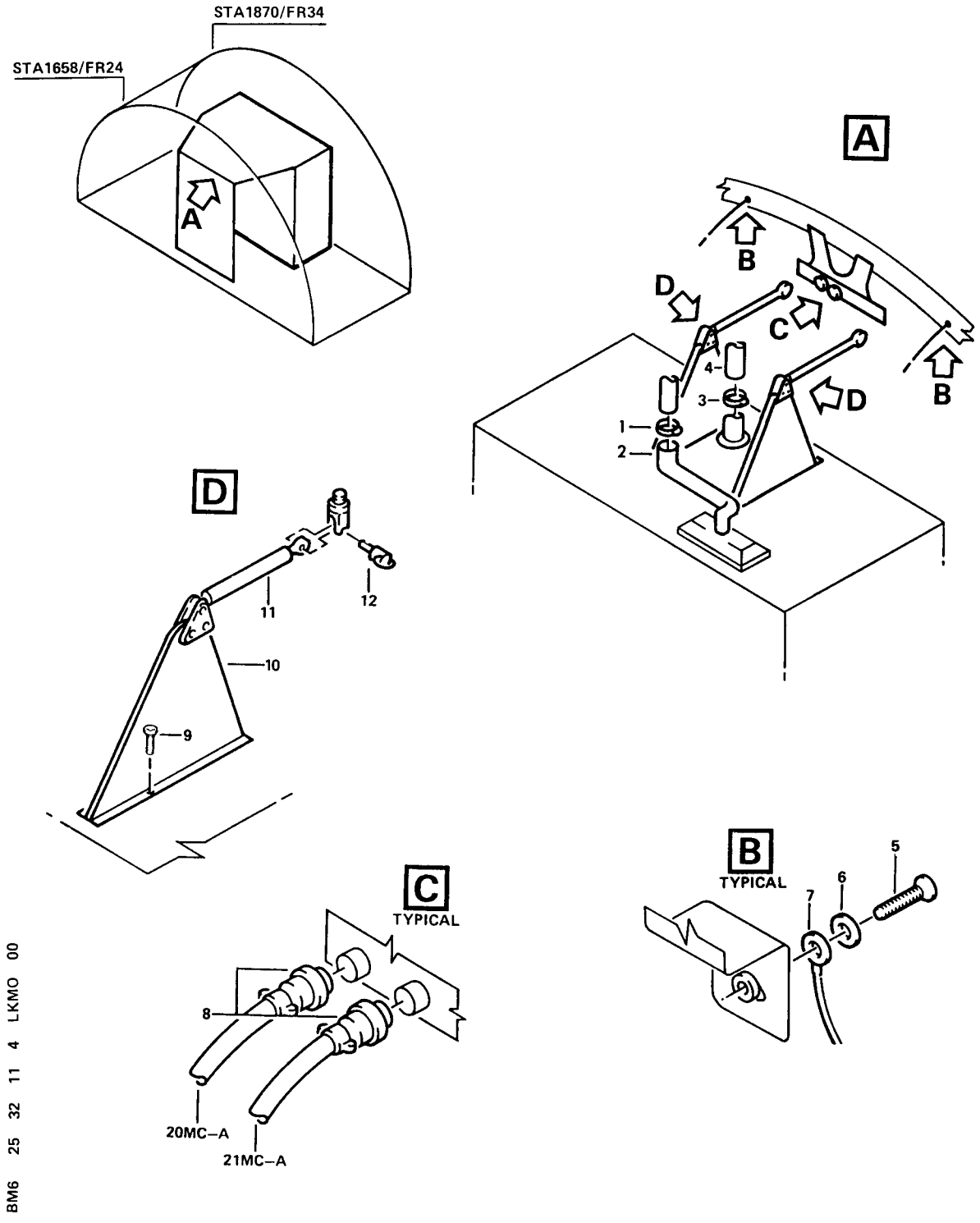
R **ON A/C 101-200,



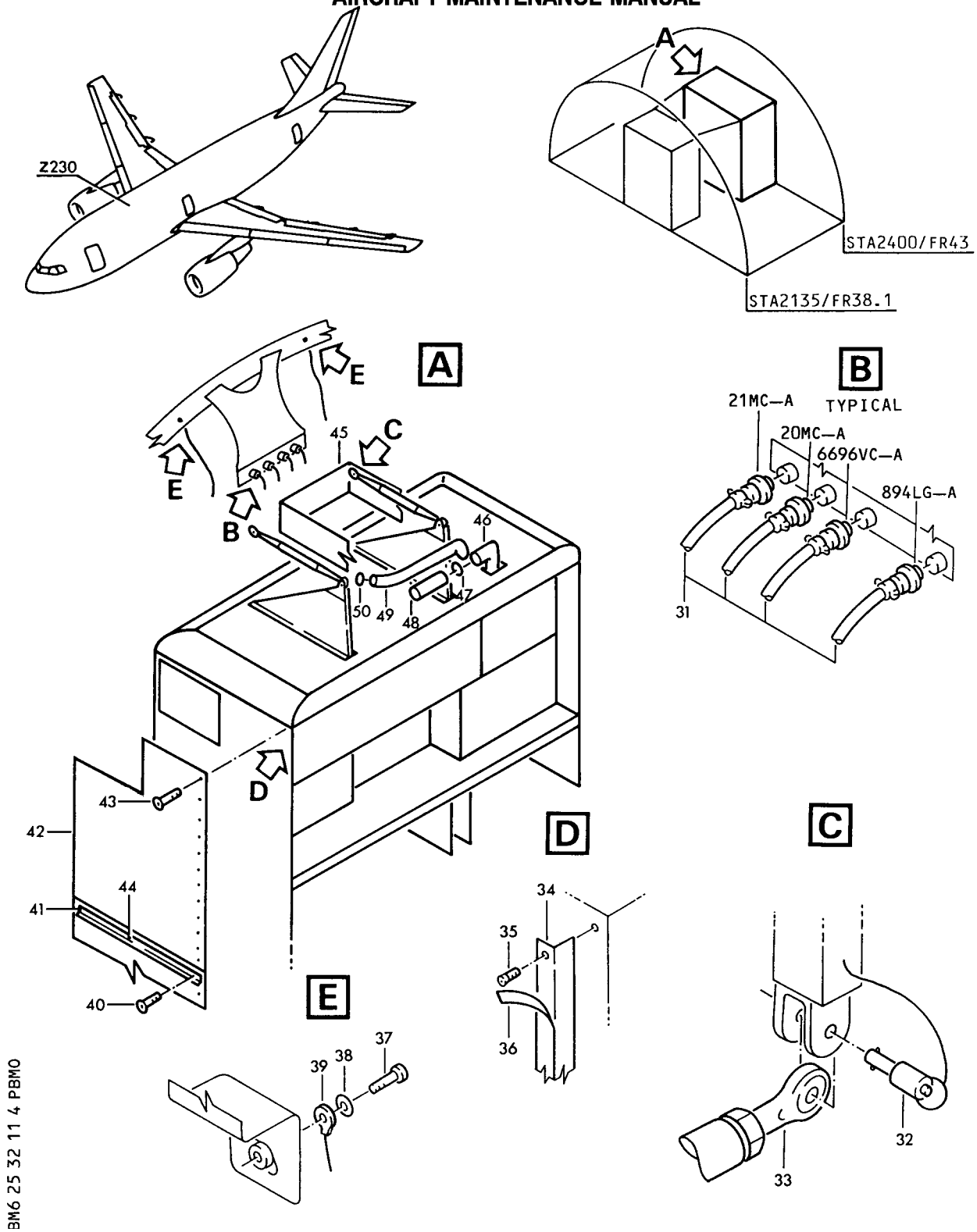

Galley Pelmet Assembly and Partition
Figure 401



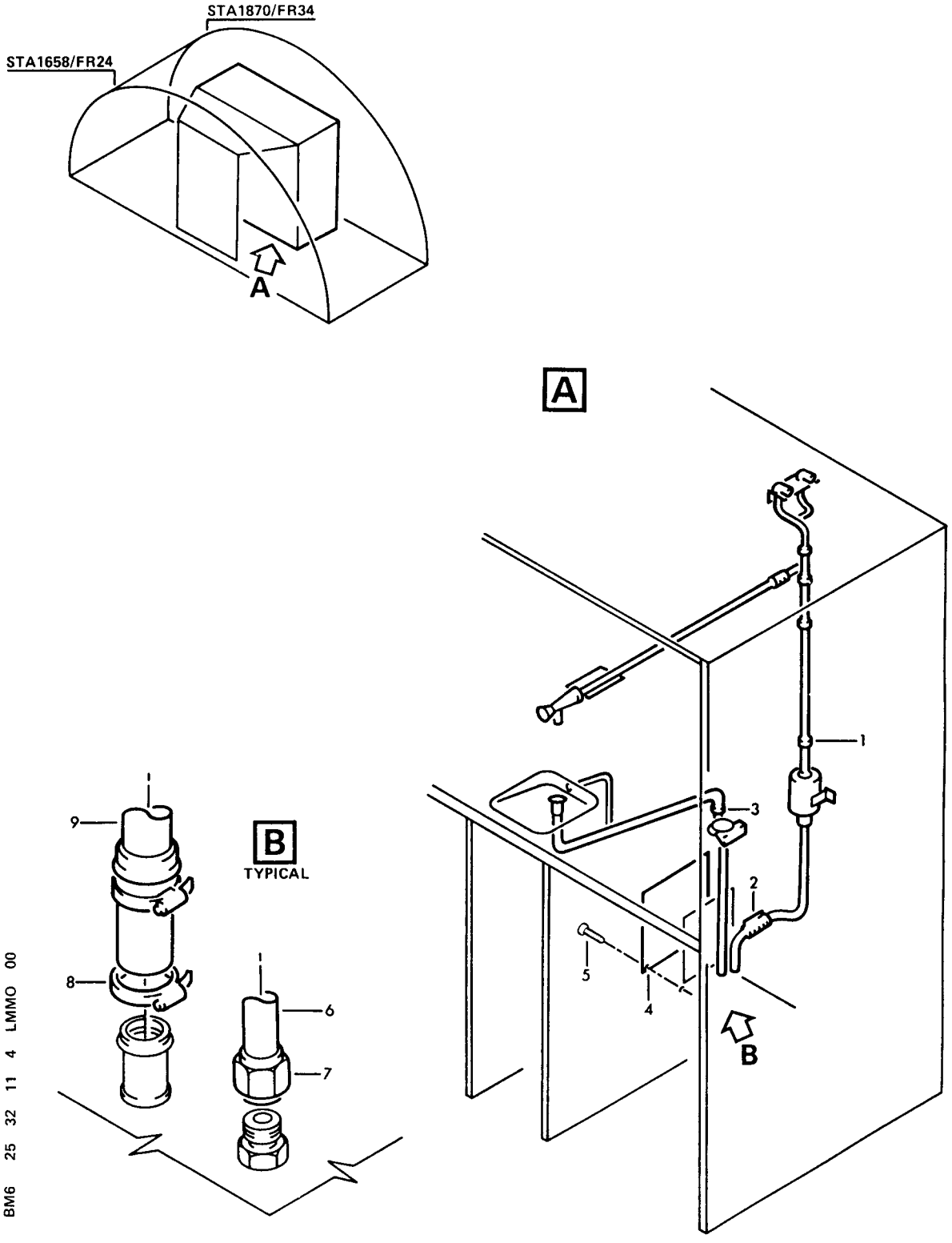

Galley Pelmet Assembly
Figure 402




Upper Attachments
Figure 403




R Upper Attachments
Figure 404




Water System
Figure 405

R (Ref. Fig. 406)

R **ON A/C 001-100,

(Ref. Fig. 407)
(Ref. Fig. 408)

R **ON A/C 101-200,

R (Ref. Fig. 409)

R **ON A/C ALL

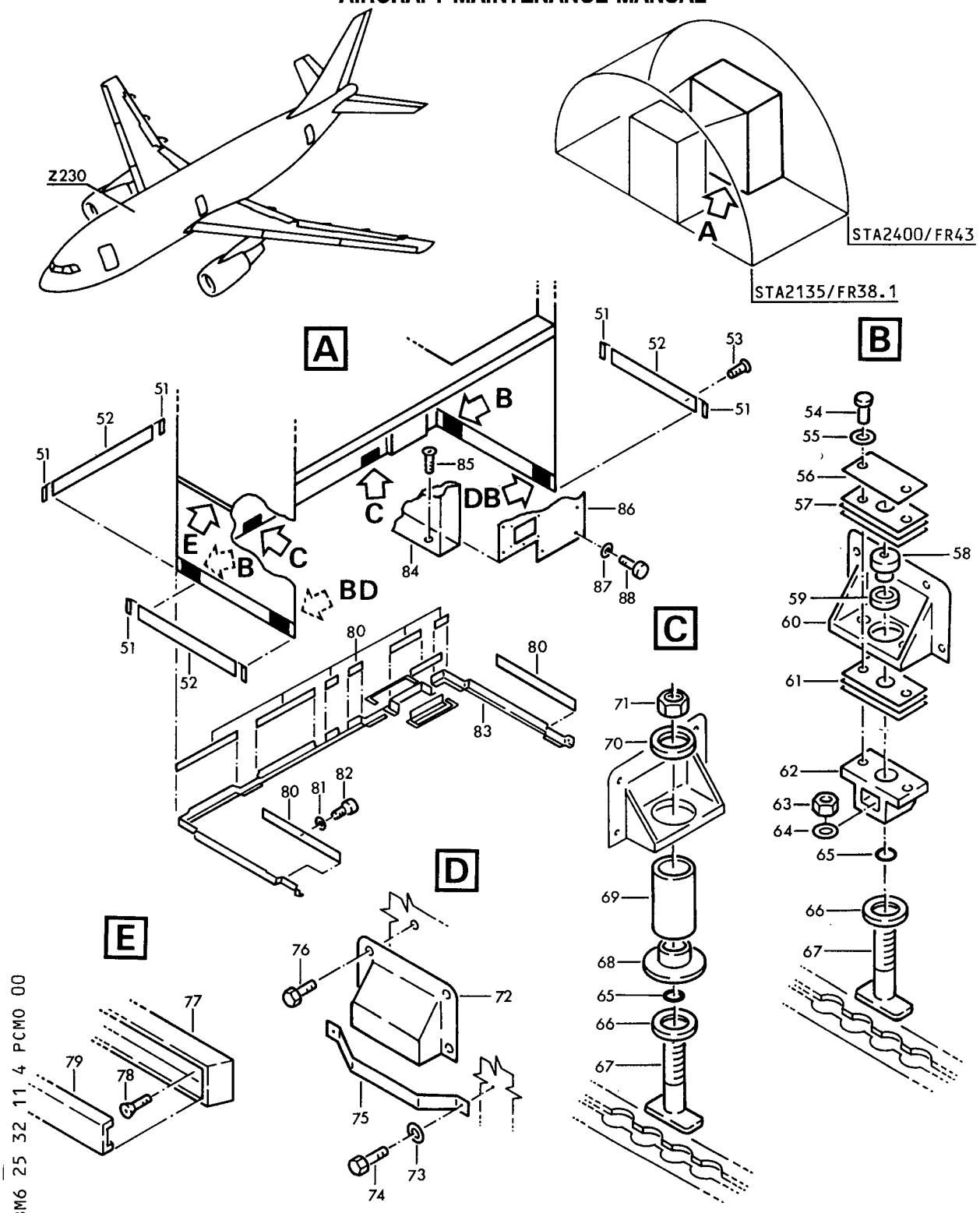
C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
(2)Visually inspect seat tracks (Ref. 53-10-16, P. Block 601) and seal, if necessary.

WARNING : CLEANING AGENT (MATERIAL NO. 11-003) IS DANGEROUS.

(3)Remove sealant remnants from floor covering and galley splitline using cleaning agent (Material No. 11-003).
(4)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.
(5)Make certain that placards on replaced or repaired components are in correct positions and in good condition.
(6)If necessary, install new placards (Ref. 11-00-00, P. Block 1).

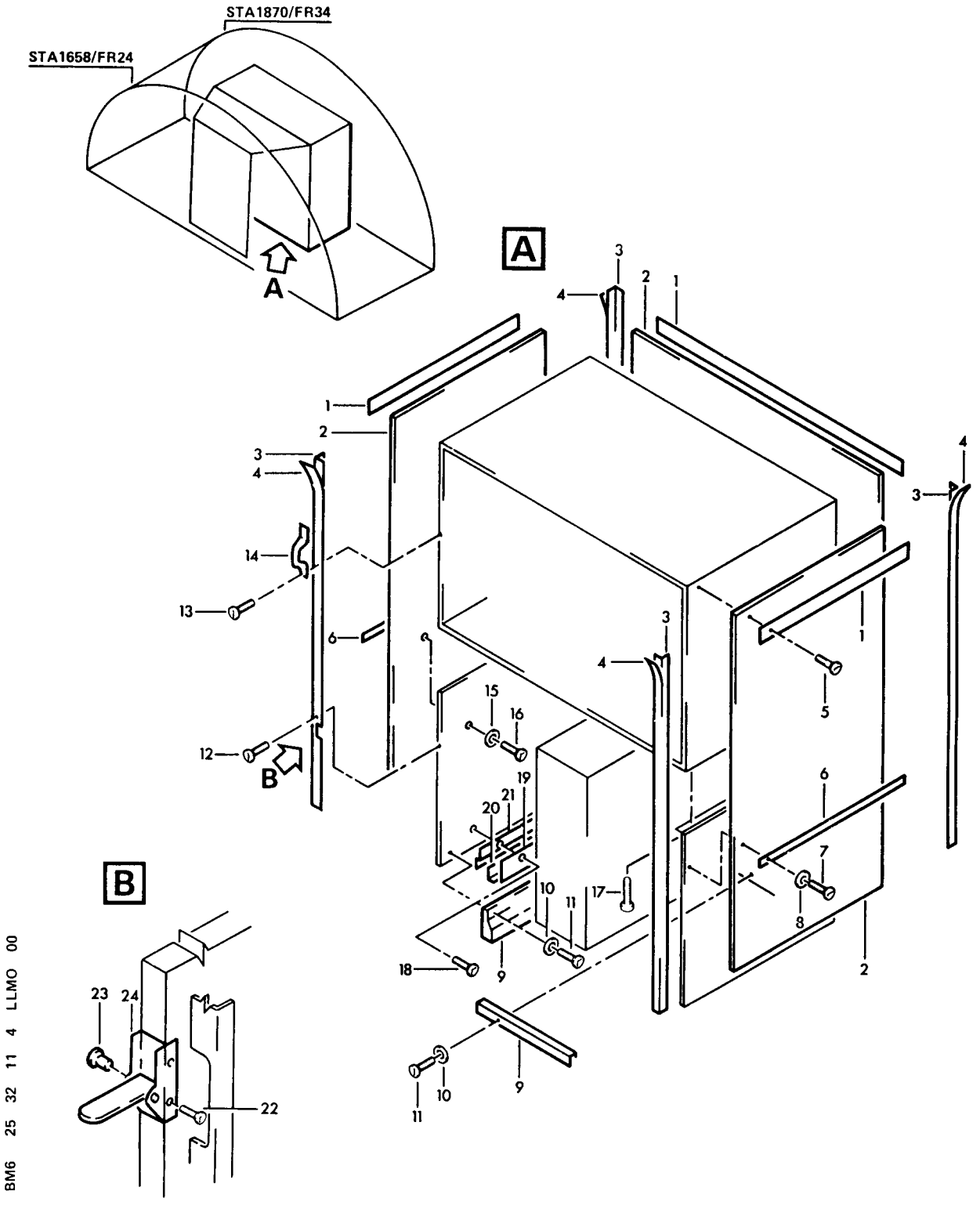
R **ON A/C 001-100,

D. Installation
(1)Install floor attachments (Ref. Fig. 408).
(a)Apply grease (Mat. No. 04-001) to threads of bolts (14, 1).
(b)Install bushes (6) and new O-rings (5).
(c)Install fittings (16), washers (15) and bolts (14).
(d)Install bushes (13, 4).
(e)Install shims (12) making certain that quantity at each location is as noted during removal.
WARNING : GALLEY UNIT WEIGHS APPROX. 190 kg (418 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Position and support galley upper section.
(3)Position galley lower section and then galley upper section.
(4)Connect galley unit at splitline (Ref. Fig. 407).
NOTE : Splitline related items are colored red.
(a)Install screws (17).
(b)Apply sealant (Mat. No. 08-004) to galley splitline.
(5)Install lower attachments (Ref. Fig. 408).
(a)Install eccentric bushes (11) and eccentric inserts (10).

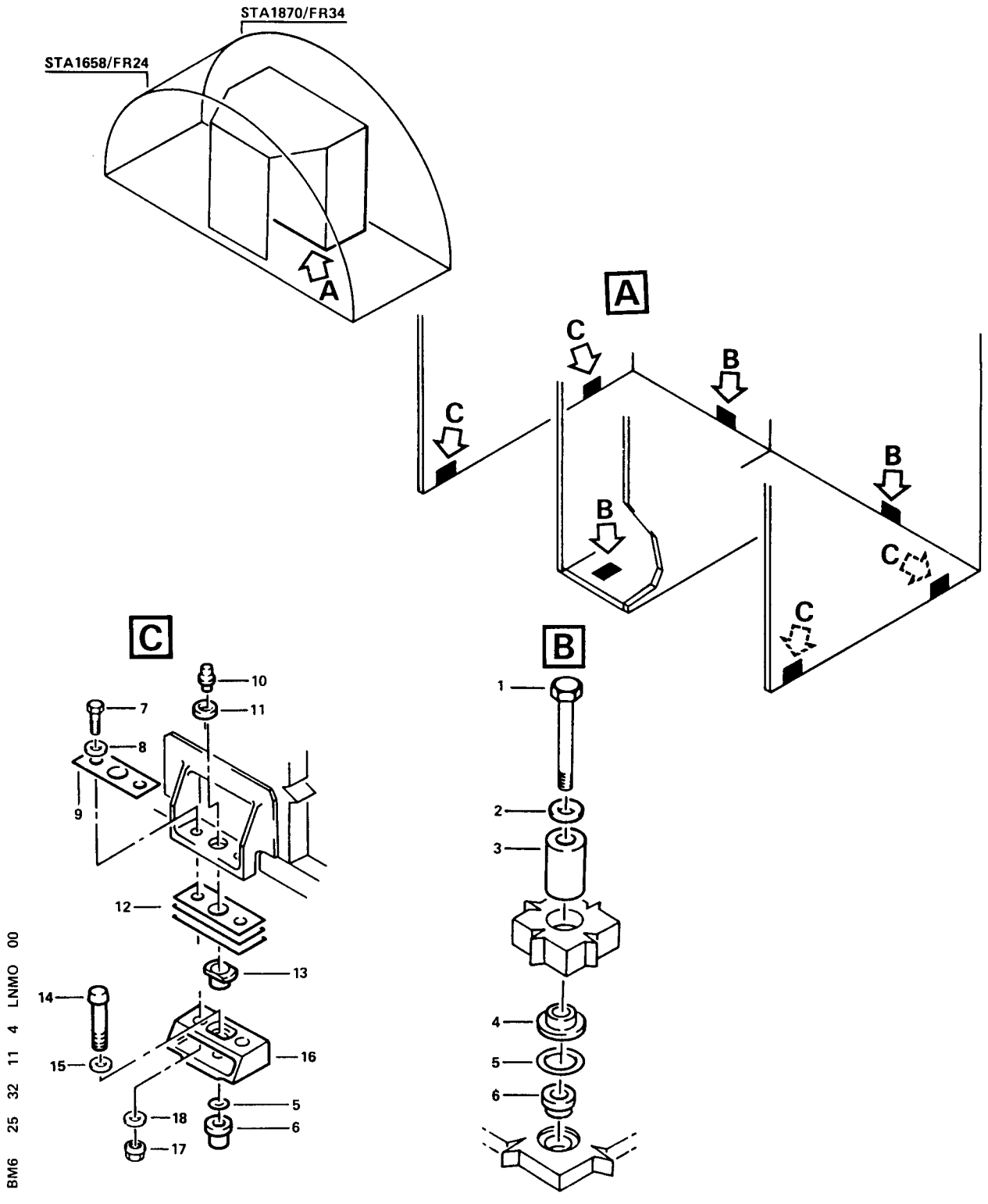



Water System and Splitline Attachments
Figure 406

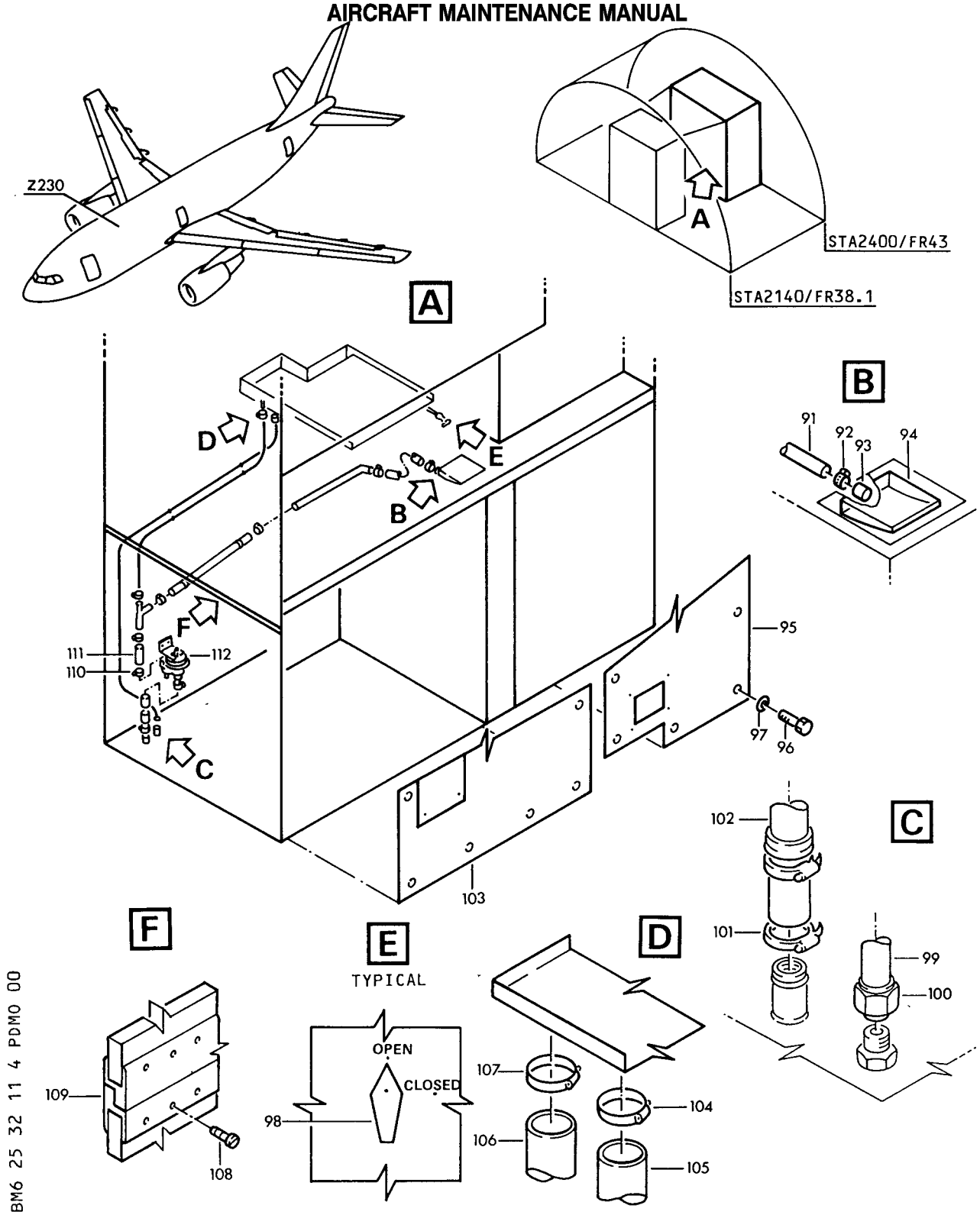
R




Decor Panels and Splitline
Figure 407




Lower Attachments
Figure 408




Lower Attachments
Figure 409

R

NOTE : Lateral alignment is achieved at eccentric bushes and inserts.

(b)Install cover plates (9), washers (18, 8), screws (7) and nuts (17).

(c)Install bushes (3), washers (2) and bolts (1).

(d)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.

(6)Connect water system (Ref. Fig. 405).

(a)Remove protective caps from disconnected lines and unions.

(b)Wrap sealing tap (Mat. No. 05-022) around threads of unions.

(c)Connect fresh water line (6) at unions (7, 1).

(d)Connect waste water line (9) and secure with clamps (8, 3).

(e)Make certain water shut-off valve (2) is in the ON position.

(f)Install access panel (4) and screws (5).

(7)Install decor panels (Ref. Fig. 407).

(a)Install decor panels (2), trim strips (1) and screws (5).

(b)Install washers (15) and screws (16).

(c)Install bumper strips (6), washers (8) and screws (7).

(d)Install sealing strips (20), cover strips (19, 21) and screws (18).

(e)Apply sealant (Mat. No. 09-016) to cover gap between sealing strips (20) and floor covering.

(f)Install covers (9), washers (10) and screws (11).

(g)Install folding step (24) and screws (23, 22).

(h)Install trim strips (3), screws (12) and decor strips (4).

(j)Install handles (14) and screws (13).

(8)Install upper attachments (Ref. Fig. 403).

(a)Install bonding straps (7), washers (6), and screws (5) (Ref. 20-28-11, P. Block 1).

(b)Install attachment assemblies (10) and screws (9).

(c)Connect tie-rods (11) and pip pins (12).

NOTE : Adjust tie-rods, if necessary.

(d)Remove protective caps from disconnected hoses and electrical connectors.

(e)Connect electrical connectors (8), 21MC-A, 20MC-A and secure with lockwire 0.6 mm (0.024 in.) dia.

NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).

(f)Connect fresh air hose (4) and secure with clamp (3).

(g)Connect exhaust air hose (2) and secure with clamp (1).

(9)Install galley pelmet assembly and partition (Ref. Fig. 401).

(a)Apply grease (Mat. No. 04-001) to threads of bolts (9).

(b)Install seat track fittings (12) with anchor fittings (11) at marked locations.

(c)Position partition (13), install washers (10) and bolts (9).

(d)Install covers (8), making certain that Velcro strips make good contact.

(e)Install pelmet components (21), washers (7, 18, 20) and screws (6, 17, 19).

(f)Install frame components (2) and screws (1).

(g)Install panel (16), washers (23) and screws (22).

(h)Remove protective caps from disconnected electrical connectors.

(j)Connect electrical connectors above panel (16).

(k)Connect pelmet lighting cables (15).
(l)Connect electrical connectors (14) 890LG-A, 894LG-A, 6576VC-A and 6607VC-A.
(m)Install panels (5), washers (4) and screws (3).
(10)Install galley catering equipment.
(11)Replenish aircraft potable water system (Ref. 12-15-38, P. Block 1).
(12)Install video monitor (Ref. 25-36-13, P. Block 401).

R **ON A/C 101-200,

D. Installation
(1)Install floor attachments (Ref. Fig. 406).
(a)Apply grease (Material No. 04-001) to thread of studs (67).
(b)Install studs (67) at previously marked positions.
(c)Install washers (66) and new O-rings (65).
(d)Install eccentric bushings (68),(69).
(e)Install saddles (62), washers (64) and nuts (63).
(f)Install shims (61) making certain that quantity at each location is as noted during removal.

WARNING : GALLEY UNIT WEIGHS APPROX. 272 kg (599 lb).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(2)Position and support galley upper section.
(3)Position galley lower section and then gallex upper section.
(4)Connect galley unit at splitline (Ref. Fig. 409)

NOTE : Splitline related items are coloured red.

(a)Install screws (108).
(b)Apply sealant (Material No. 08-004) to galley splitline.
(5)Install lower attachments (Ref. Fig. 406)
(a)Install eccentric washers (59) and eccentric bushings (58).

NOTE : Lateral alignment is achieved at eccentric bushings and eccentric washers.

(b)Install shims (57) making certain that quantity at each location is as noted during removal.
(c)Install cover plates (56), washers (55) and bolts (54).
(d)Install washers (70) and nuts (71).
R (e)To prevent corrosion, apply protective compound (Mat. No. 15-008)
R to lower fittings.
(6)Connect water system (Ref. Fig. 409).
(a)Remove protective caps from disconnected lines, hoses and union.
(b)Wrap sealing tap (Material No. 05-022) around thread of union.
(c)Connect fresh water line (99) at union (100).
(d)Connect waste water lines (91),(106) and secure with clamps (92),(107).

(e)Connect waste water hose (102) and secure with clamp (100).
(f)Make sure that water shut-off valve (98) is in OPEN position.
(7)Install decor panels (Ref. Fig. 404)
(a)Install decor panels (42), trim strips (34) and screws (35).
(b)Install tracks (44), screws (40) and fillers (41).
(c)Install decor strips (36).
(8)Install upper attachments (Ref. Fig. 404)
(a)Install bonding straps (39), washers (38) and screws (37) (Ref. 20-28-11, P. Block 1).
(b)Connect tie-rods (33) and pip pins (32).

NOTE : Adjust tie-rods, if necessary.

(c)Remove protective caps from disconnected hoses and electrical connectors.
(d)Connect electrical connectors (31), 21MC-A, 20MC-A, 6696VC-A, 894LG-A and secure with lockwire 0.6 mm (0.024 in.) dia.
NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).
(e)Connect fresh air hose (49) and secure with clamp (50).
(f)Connect exhaust air hose (48) and secure with clamp (47).
(9)Install galley pelmet assembly (Ref. Fig. 402)
(a)Install frame components (26), washers (25) and screws (24).
(b)Install seal strip (15) to pelmet section (16).
(c)Support pelmet section (16) and install piano hinge half (12), washers (10) and screws (11).
(d)Remove protective cap from electrical connector.
(e)Connect electrical connector (23), 890LG-A.
(f)Raise pelmet section (16) until safety catches (22) catch hold of catches (17).
(g)Raise pelmet section (16) fully and turn latches (5) 90°.
(h)Install covers (9), washers (8) and screws (7).

R **ON A/C 001-100,

E. Test
(1)Carry out galley equipment operational test (Ref. 25-34-00, P. Block 501).
(2)Carry out cabin and flight crew call system test (Ref. 23-43-00, P. Block 501).
(3)Carry out passenger lighted signs test (Ref. 33-26-00, P. Block 501).
(4)Carry out cabin attendant work light test (Ref. 33-26-00, P. Block 501).
(5)Carry out video monitor test (Ref. 23-36-13, P. Block 501).

R **ON A/C 101-200,

R E. Test
R (1)Carry out cabin attendant work light test (Ref. 33-27-00,
R P. Block 501).

R **ON A/C 001-100,

F. Close-Up
(1)Install ceiling panels in galley area (Ref. 25-23-11, P. Block 401 and Ref. 25-23-13, P. Block 401).
(2)Install curtain rails and curtains, if removed (Ref. 25-26-00, P. Block 1).
(3)Install doghouses (Ref. 25-27-17, P. Block 401).
(4)Install cabin attendant seats (Ref. 25-21-61, P. Block 401).
(5)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

R **ON A/C 101-200,

R F. Close-Up
R (1)Install curtain rails and curtains, if removed (Ref. 25-26-00,
R P. Block 1).
R (2)Make certain that working area is clean and clear of tools and
R miscellaneous items of equipment.

## CENTER GALLEY UNIT - REMOVAL/INSTALLATION

WARNING : GALLEY WEIGHS APPROX. 173 kg (382 lb.).

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | O-Rings |
| D. | Corrosion-Resistant Steel Lockwire 0.6 mm (0.024 in.) dia. |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| G. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| H. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 25-23-11, P. Block 401 | Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-32-11, P. Block 401 | Center Galley Unit |
| - 53-10-16, P. Block 601 | Seat Tracks |

### 2. Procedure

A. Job Set-Up

(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |

(2)Empty galley compartments.

(3)Remove galley catering equipment.

(4)Remove curtains and curtain rails, if necessary, (Ref. 25-26-00, P. Block 1).

(5)Remove center galley pelmet assembly (Ref. 25-32-11, P. Block 401).

B. Removal

(1)Remove upper attachments (Ref. Fig. 401)

(a)Remove screws (18), washers (17) and frame components (1).

(b)Remove lockwire and disconnect electrical connector (16) 89OLG-A.

(c)Remove lockwire and disconnect electrical connectors (12), 55MC-A

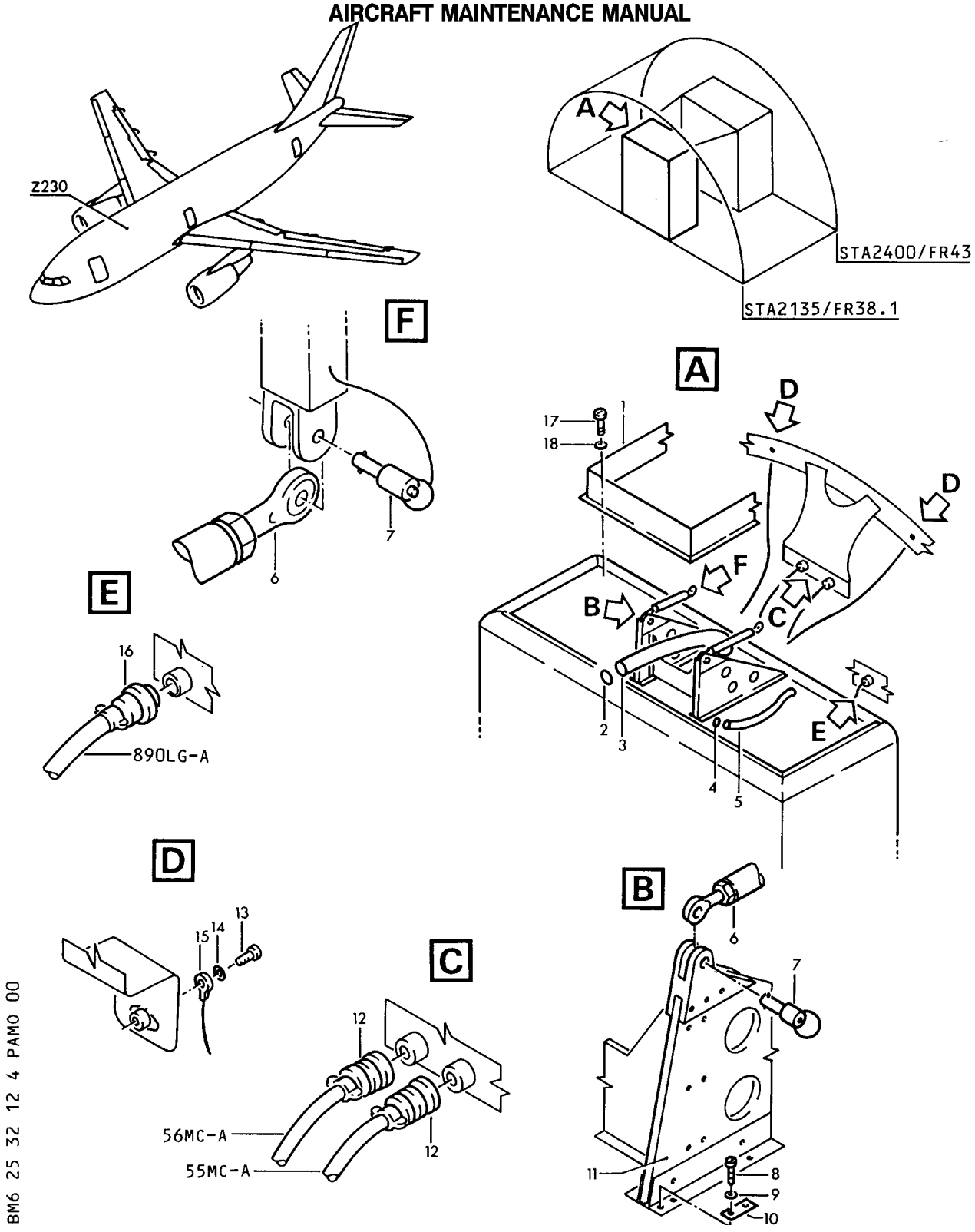
and 56MC-A.
(d)Release clamp (4) and disconnect fresh air hose (5).
(e)Release clamp (2) and disconnect exhaust air hose (3).
(f)Install protective caps to disconnected hoses and electrical connectors.
(g)Remove pip pins (7) and disconnect tie-rods (6).
(h)Remove screws (13), washers (14) and bonding straps (15).
(j)Remove screws (8), washers (9), nuts (10) and upper attachment assembly (11).
(2)Remove lower galley attachments (Ref. Fig. 402).
(a)Remove sealant from lower attachment covers (54) and edges of seal retainers (38).
(b)Remove sealant between sealing strips (37) and floor covering.
(c)Remove screws (23), kick strips (22) and end caps (21).
(d)Remove covers (48) and foams (49).
(e)Remove screws (53) and covers (54) resp. screws (51), washers (50), bumpers (52) and covers (54).
(f)Remove nuts (47) and washers (46).
(g)Remove screws (24), washers (25) and cover plates (26).
(h)Remove shims (27) noting quantity at each location for subsequent installation.
(j)Remove eccentric bushings (28) and eccentric washers (29).
(k)Remove screws (39), washers (40), seal retainers (38) and sealing strips (37).

WARNING : GALLEY UNIT WEIGHS APPROX. 173 kg (382 lb.).

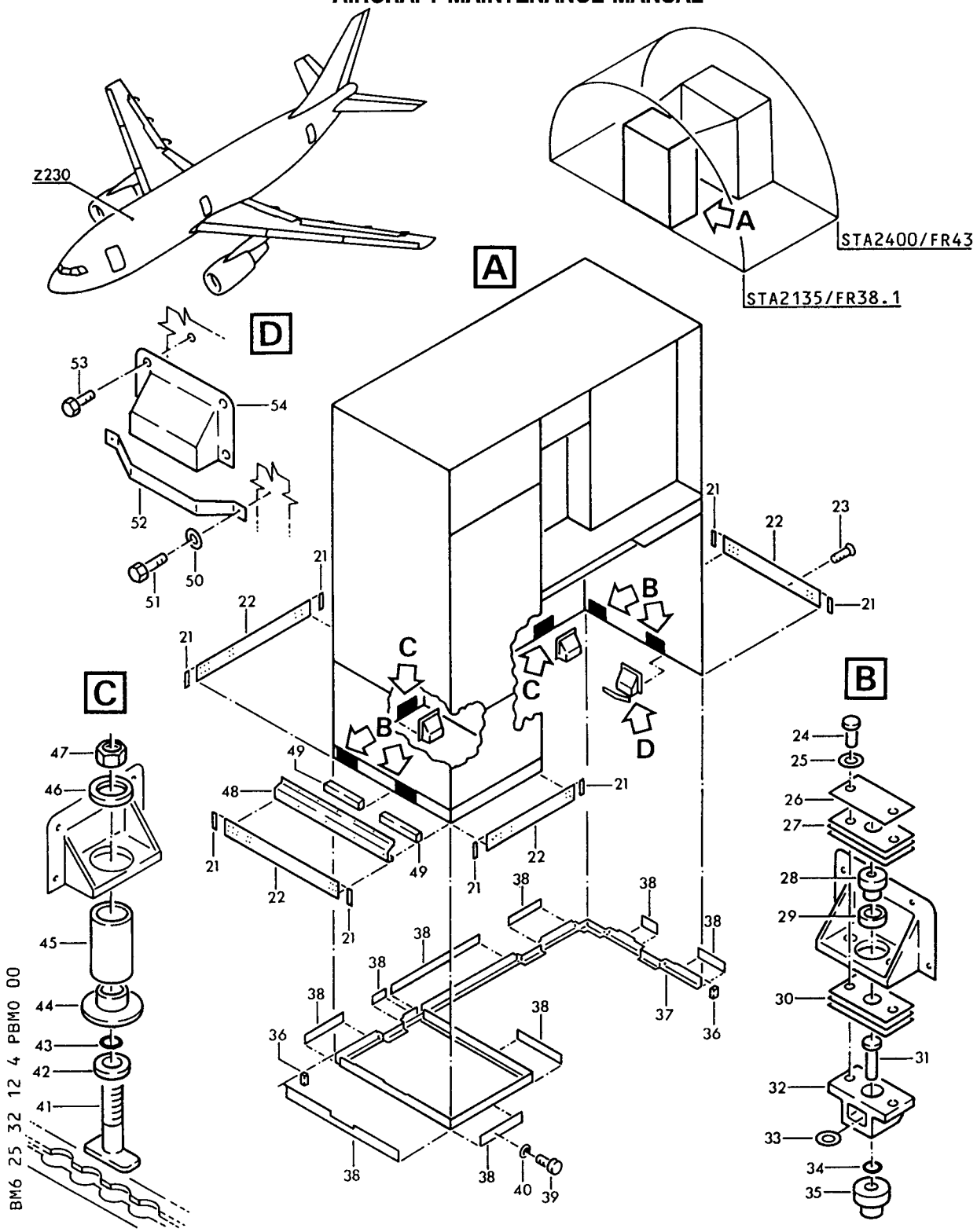
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(3)Remove galley unit.
(4)Remove floor attachments (Ref. Fig. 402).
(a)Remove shims (30), making note of quantity at each location for subsequent installation.
(b)Remove bolts (31), washers (33) and saddles (32).
(c)Remove O-rings (34) and bushes (35). Discard O-rings.
(d)Remove eccentric bushings (45),(44), O-rings (43) and washers (42).

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(2)Remove sealant remnants from floor covering with cleaning agent (Mat. No. 11-003).
(3)Visually inspect seat tracks (Ref. 53-10-16, Block 601) and seal, if necessary.
(4)Apply grease (Mat. No. 04-001) to marked positions on seat tracks.
(5)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.
(6)Make certain that placards on replaced or repaired components are in correct positions and in good condition.
(7)If necessary, install new placards (Ref. 11-00-00, P. Block 1).




Upper Attachments
Figure 401




Lower Attachments
Figure 402

D. Installation
(1)Install floor attachments (Ref. Fig. 402).
(a)Apply grease (Mat. No. 04-001) to threads of studs (41).
(b)Install studs (41) with washers (42), new O-rings (43) and eccentric bushings (44),(45) in seat tracks.
(c)Install bushes (35), new O-rings (34), saddles (32), washers (33) and bolts (31).
(d)Install shims (30) making certain that quantity at each location is as noted during removal.

WARNING : GALLEY UNIT WEIGHS APPROX. 173 kg (382 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(2)position galley unit.
(3)Install lower galley attachments (Ref. Fig. 402).
(a)Apply grease (Mat. No. 01-004) to threads of bolts (24).
(b)Install washers (46) and nuts (47).
(c)Install eccentric washers (29) and eccentric bushings (28).
(d)Install shims (27) making sure that quantity at each location is as noted during removal.

NOTE : Lateral adjustment is achieved at eccentric inserts.

(e)Install cover plates (26), washers (25) and bolts (24).
(f)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(g)Install covers (54) and screws (53) resp. covers (54), bumpers (52), washers (50) and screws (51).
(h)Install cover (48) with foams (49).
(j)Install sealing strips (37), seal retainers (38), washers (40) and screws (39).
(k)Apply sealant (Mat. No. 08-004) to bond sealing strips (37) to nontextile floor covering.
(l)Apply sealant (Mat. No. 08-004) to edges of seal retainers and covers.
(4)Install upper attachments (Ref. Fig. 401).
(a)Install bonding straps (15), washers (14), and screws (13) (Ref. 20-28-11, P. Block 1).
(b)Install upper attachment assembly (11) with screws (8), washers (9) and nuts (10).
(c)Install tie-rods (6) and pip pins (7).

NOTE : Adjust tie-rods, if necessary.

(d)Remove protective caps from disconnected hoses and electrical connectors.
(e)Connect electrical connectors (12),(11) and (16) 56MC-A, 55MC-A and 890LG-A and secure with lockwire 0.6 mm (0.024 in.) dia.
NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching

bracket and the connector must be approx. 3.3 mm (0.13 in.).

(f)Connect exhaust air hose (3) and secure with clamp (2).

(g)Connect fresh air hose (5) and secure with clamp (4).

(5)Install galley pelmet assembly (Ref. Fig. 401).

(a)Install frame components (1), washers (18) and screws (17).

(b)Install center galley pelmet assembly (Ref. 25-31-11, P. Block 401).

E. Close up

(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

## CENTER GALLEY UNIT (OUTBOARD) - REMOVAL/INSTALLATION

WARNING : GALLEY UNIT WEIGHS APPROX. 80 kg (176 lb.).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | O-Rings |
| B. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| C. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| D. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| E. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |
| Referenced Procedure | |
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-27-17, P. Block 401 | Doghouse |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 53-10-16, P. Block 601 | Seat Tracks |

2. Procedure

A. Job Set-Up
(1)Empty galley compartments.
(2)Remove curtain rails and curtains (Ref. 25-26-00, P. Block 1).
(3)Remove doghouses (Ref. 25-27-17, P. Block 401).

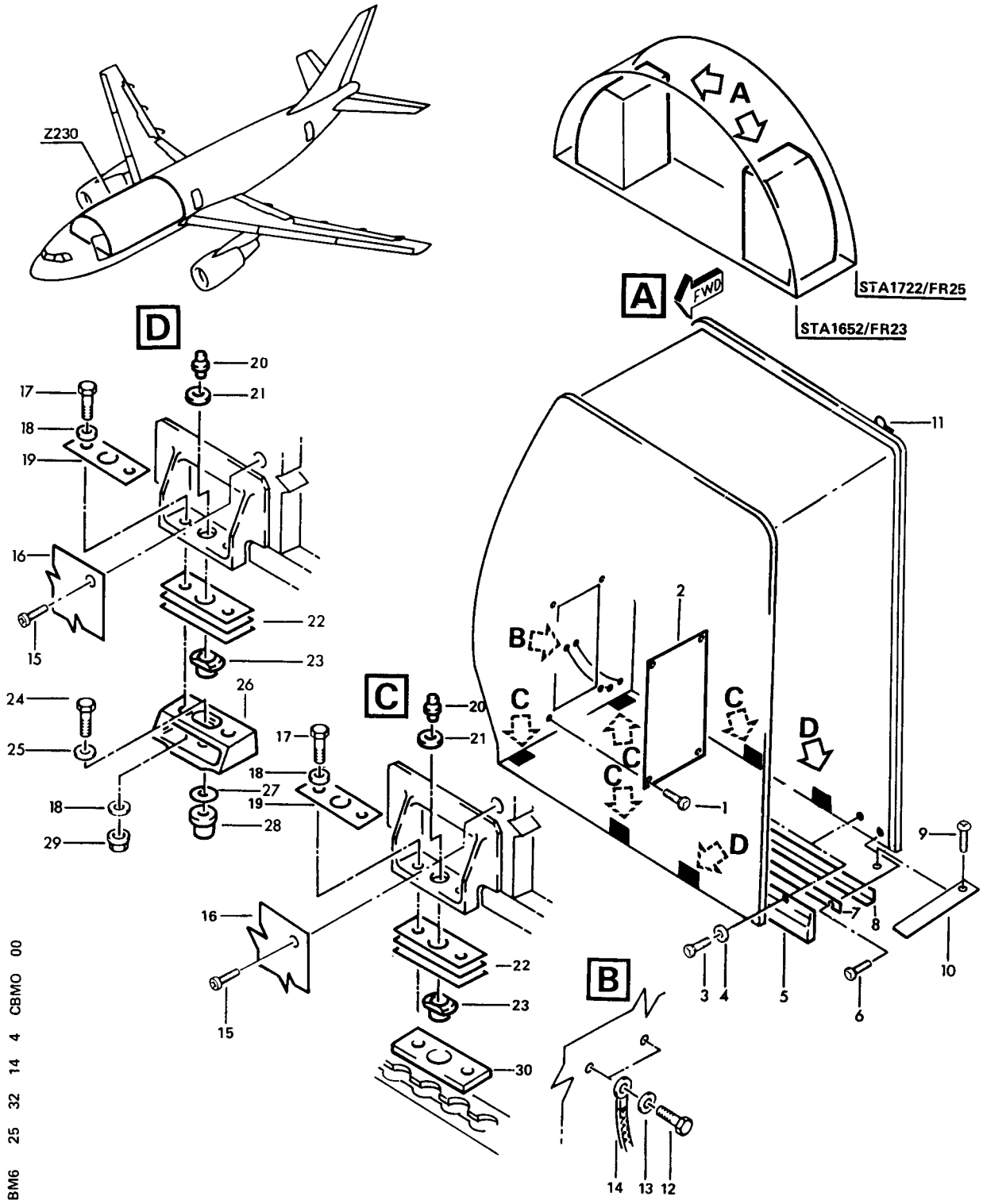
B. Removal (Ref. Fig. 401)
(1)Remove lower adjustable attachments.
(a)Remove screws (1) and access panel (2).
(b)Remove screws (3, 9), washers (4) and covers (5, 10).
(c)Remove screws (6) and cover strips (7).
(d)Remove sealant between sealing strips (8) and floor covering.
(e)Remove sealing strips (8).
(f)Remove sealant between seal (11) and galley to toilet interface.
(g)Remove screws (15) and covers (16).
(h)Remove nuts (29), bolts (17), washers (18) and cover plates (19).
(j)Remove locating pins (20) and eccentric bushes (21).
(k)Remove screws (12), washers (13) and bonding straps (14).
WARNING : GALLEY UNIT WEIGHS APPROX. 80 kg (176 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Remove galley unit.
(3)Remove lower attachments.
(a)Remove shims (22) and eccentric inserts (23).
(b)Remove bolts (24), washers (25) and fittings (26).
(c)Remove O-rings (27) and bushes (28). Discard O-rings.
(d)Mark locations of seat track fittings (30) and remove.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(4)Remove sealant remnants from floor and galley to toilet interface using cleaning agent (Mat. No. 11-003).
(Ref. Fig. 401)

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
(2)Visually inspect seat tracks (Ref. 53-10-16, P. Block 601) and seal, if necessary.
(3)Apply grease (Mat. 04-001) to coat seat tracks in attachment area.
(4)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(5)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(6)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.

D. Installation
(1)Install lower attachments (Ref. Fig. 401).
(a)Apply grease (Mat. No. 04-001) to threads of bolts (24).
(b)Install seat track fittings (30) at marked locations.
(c)Install bushes (28) and new O-rings (27).
(d)Install fittings (26), washers (25) and bolts (24).
(e)Install eccentric inserts (23) and shims (22).
WARNING : GALLEY UNIT WEIGHS APPROX. 80 kg (176 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Position galley unit.
(3)Install lower adjustable attachments.
(a)Install bonding strap (14), washers (13) and screws (12).
(b)Install eccentric bushes (21) and locating pins (20).
NOTE : Adjust galley at eccentric bushes, if necessary.
(c)Install cover plates (19), washers (18), bolts (17) and nuts (29).
(d)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(e)Install covers (16) and screws (15).
(f)Install access panel (2) and screws (1).
(g)Install sealing strips (8), cover strips (7) and screws (6).
(h)Apply sealant (Mat. No. 08-004) to cover gap between sealing strips (8) and floor covering.
(j)Install covers (10, 5), washers (4) and screws (3, 9).
(k)Apply sealant (Mat. No. 08-004) to seal (11) at galley to toilet interface.

E. Close-Up
(1)Install curtain rails and curtains (Ref. 25-26-00, P. Block 1).
(2)Install doghouses (Ref. 25-27-17, P. Block 401).
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.




Lower Attachments
Figure 401

## AFT GALLEY UNIT - REMOVAL/INSTALLATION

WARNING : GALLEY UNIT WEIGHS APPROX. 180 kg (396 lb.).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia. |
| D. | O-Rings |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| G. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| J. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 12-24-38, P. Block 1 | Potable Water System - Draining |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-34-00, P. Block 501 | Galley Equipment |
| - 33-51-17, P. Block 401 | Floor Escape Path Marking - Lighting |

### 2. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | EMER LT-EXIT LT | 20WL | E27 |
| 22VU | EMER LT-EXIT LT | 21WL | E28 |
| 132VU | LIGHTING-EMER LT-EXIT LT CHARGER | 24WL | L75 |
| 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |

(2)Drain aircraft potable water system (Ref. 12-24-38, P. Block 1).
(3)Empty galley compartments.
(4)Remove galley catering equipment.
(5)Remove curtains and curtain rails, if necessary, (Ref. 25-26-00, P. Block 1).
(6)Remove ceiling panels in galley area (Ref. 25-23-13, P. Block 401).
(7)Remove escape path marking light assembly, if necessary

(Ref. 33-51-17, P. Block 401).

B. Removal

(1)Remove upper attachments (Ref. Fig. 401).
  (a)Remove screws (2) and pelmet (1).
  (b)Release clamp (3) and disconnect exhaust air hose (4).
  (c)Release clamp (5) and disconnect fresh air hose (6).
  (d)Remove lockwire and disconnect electrical connectors (10), 18MC-A, 19MC-A and 6625VC-A.
  (e)Fit protective caps to disconnected hoses and electrical connectors.
  (f)Remove pip pins (11) and disconnect tie rods (12).
  (g)Remove bolts (14) and attachment assemblies (13).
  (h)Remove screws (7), washers (8) and bonding straps (9).

(2)Remove decor panels (Ref. Fig. 403).
  (a)Remove screws (13) and handles (14).
  (b)Remove decor strips (4), screws (12) and trim strips (3).
  (c)Remove screws (22, 23) and folding step (24).
  (d)Remove screws (7), washers (8) and bumper strips (6).
  (e)Remove screws (11), washers (10) and covers (9).
  (f)Remove screws (18) and cover strips (19, 21).
  (g)Remove sealant between sealing strips (20) and floor covering.
  (h)Remove sealing strips (20).
  (j)Remove screws (16) and washers (15).
  (k)Remove screws (5), trim strips (1) and decor panels (2).
  (l)Remove terminal block cover (25).
  (m)Remove nuts (26), washers (27) and disconnect emergency escape light cables (28).
  (n)Withdraw cables (28) and secure below splitline.

(3)Disconnect water system (Ref. Fig. 402).
  (a)Remove screws (5) and access panels (4).
  (b)Release clamps (3, 8) and disconnect waste water line (9).
  (c)Disconnect fresh water line (6) at unions (1, 7).
  (d)Fit protective caps to disconnected lines and unions.

(4)Remove lower galley attachments (Ref. Fig. 404).
  (a)Remove screws (1), washers (2, 11), nuts (12) and cover plates (3).
  (b)Remove excentric inserts (4) and excentric bushes (5).

(5)Disconnect galley at splitline (Ref. Fig. 403).
  (a)Remove sealant from galley splitline.
  (b)Remove screws (17).

NOTE : Splitline related items are colored red.

WARNING : GALLEY UNIT WEIGHS APPROX. 180 kg (396 lb.).

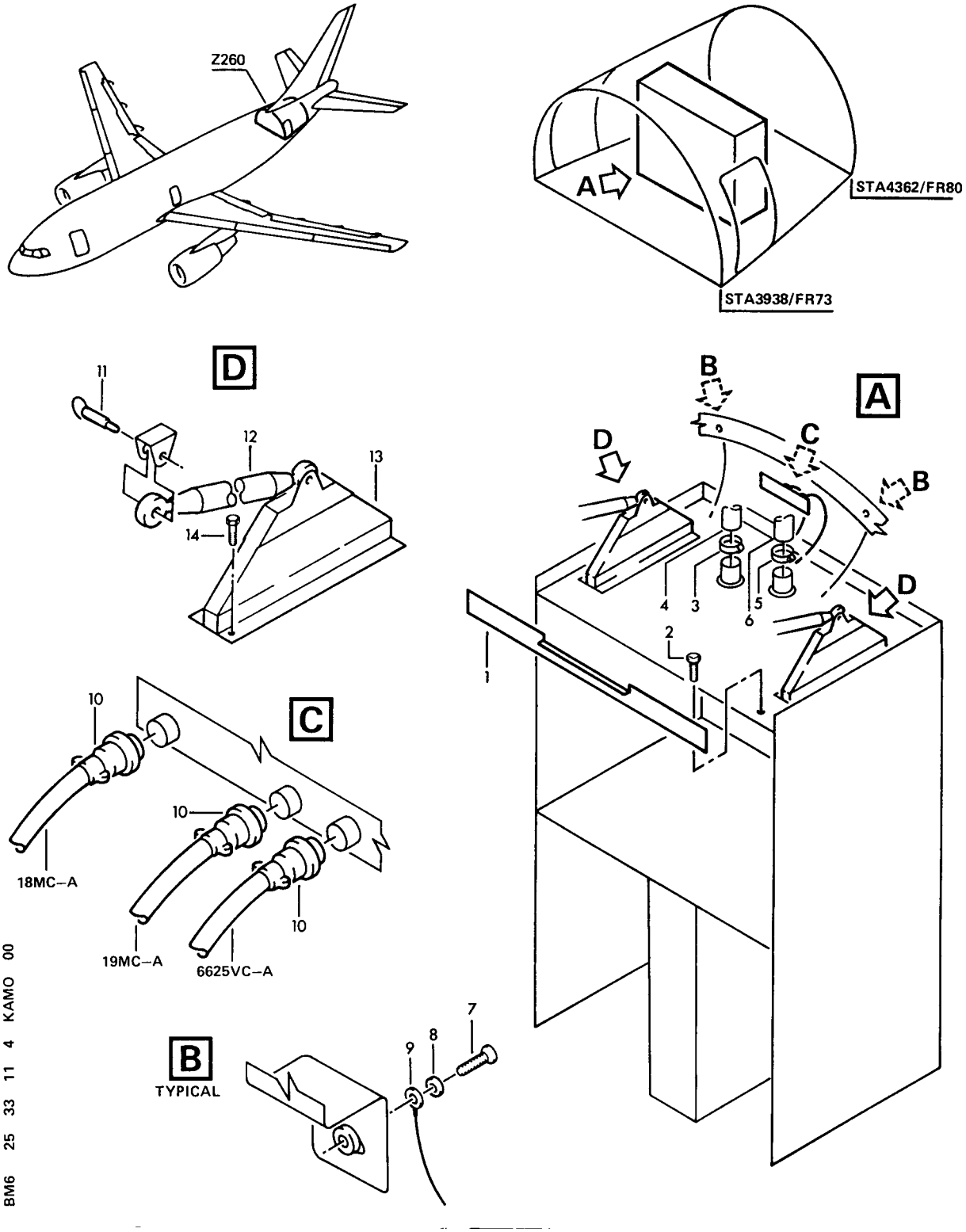
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(6)Lift and support galley upper section.

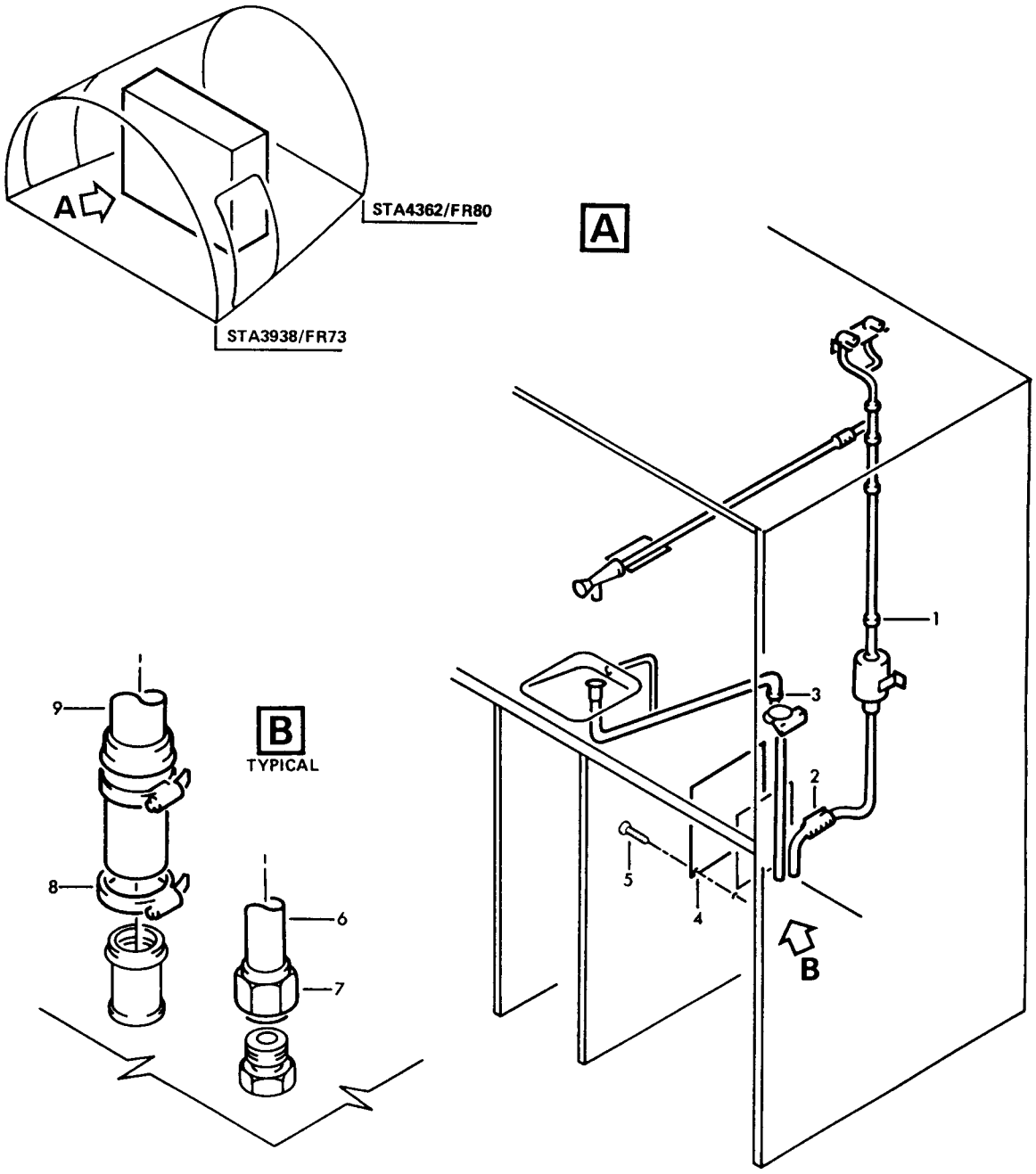
(7)Remove galley lower section and then galley upper section.

(8)Remove floor attachments (Ref. Fig. 404).
  (a)Remove shims (6) noting quantity at each location for subsequent installation.
  (b)Remove excentric inserts (7).
  (c)Remove bolts (8), washers (9) and fittings (10).
  (d)Remove O-rings (13) and bushes (14). Discard O-rings.

(Ref. Fig. 401)
(Ref. Fig. 402)




Upper Attachments
Figure 401

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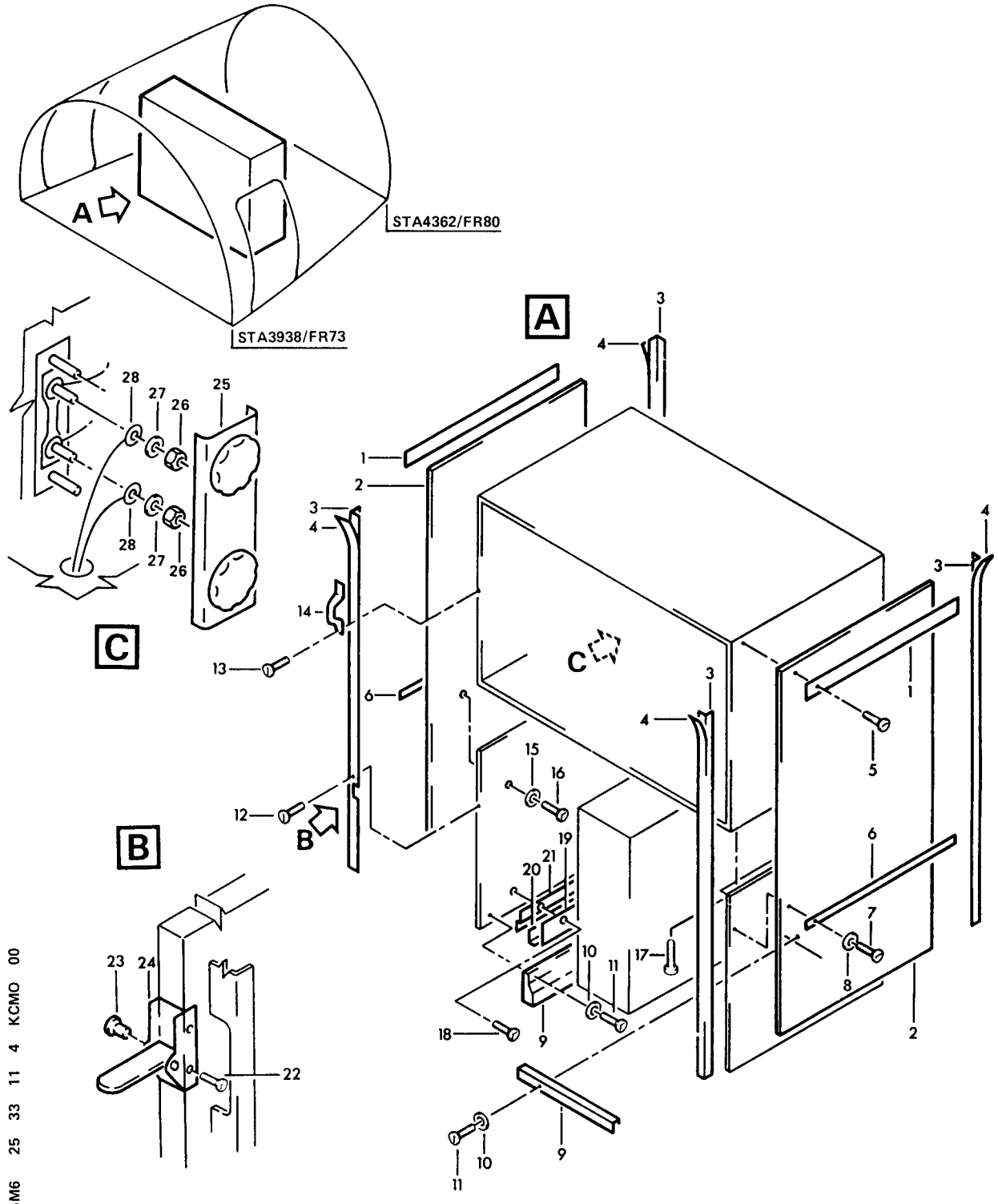
Water System
Figure 402

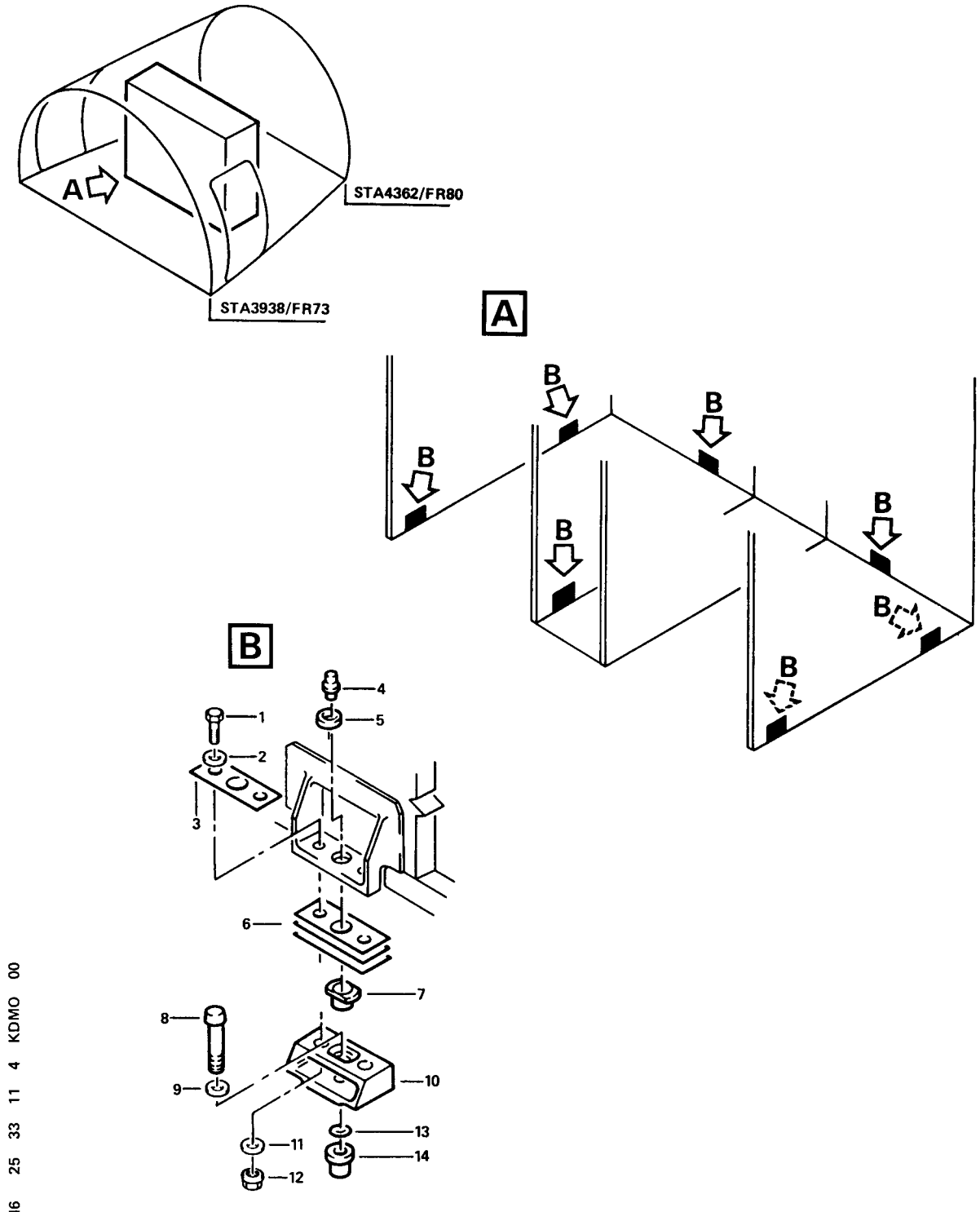
(Ref. Fig. 403)
(Ref. Fig. 404)

C. Preparation for Installation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(2)Remove sealant remnants from floor covering and galley splitline using cleaning agent (Mat. No. 11-003).
(3)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(4)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(5)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.

D. Installation
(1)Install floor attachments (Ref. Fig. 404).
(a)Apply grease (Mat. No. 004-001) to threads of bolts (8).
(b)Install bushes (14) and new O-rings (13).
(c)Install fittings (10), washers (9), and bolts (8).
(d)Install bushes (7).
(e)Install shims (6) making certain that quantity at each location is as noted during removal.
WARNING : GALLEY UNIT WEIGHS APPROX. 180 kg (396 lb.).
CAUTION : TAKE CARE TO FOUL ADJACENT STRUCTURES.
(2)Position and support galley upper section.
(3)Position galley lower section and then galley upper section.
NOTE : Position galley sufficiently fwd so as to allow access to aft splitline connections.
(4)Connect galley unit at splitline (Ref. Fig. 403).
NOTE : Splitline related items are colored red.
(a)Install screws (17).
(b)Apply sealant (Mat. No. 08-004) to galley splitline.
(c)Release cables (28) and pass through galley to installation position.
(d)Connect emergency escape light cables (28), install washers (27) and nuts (26).
(e)Install terminal block cover (25).
WARNING : GALLEY UNIT WEIGHS APPROX. 180 kg (396 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(5)Using strips of Teflon or similar material to ease sliding, move galley aft to installation position.
(6)Install lower galley attachments (Ref. Fig. 404).
(a)Install eccentric bolts (4) and eccentric bushes (5).
NOTE : Lateral alignment is achieved at eccentric bushes.
(b)Install cover plates (3), washers (2) and screws (1).
(c)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(7)Connect water system (Ref. Fig. 402).
(a)Remove protective caps from disconnected lines and unions.
(b)Wrap sealing tape (Mat. No. 05-022) threads of unions.




Decor Panel and Splitline
Figure 403




Lower Attachments
Figure 404

(c)Connect fresh water line (6) at unions (7, 1).
(d)Connect waste water line (9) and secure with clamps (8, 3).
(e)Install access panel (4) and screws (5).
(f)Make certain water shutoff valve (2) is in the ON position.
(8)Install decor panels (Ref. Fig. 403).
(a)Install decor panels (2), trim strips (1) and screws (5).
(b)Install washers (15) and screws (16).
(c)Install bumper strips (6), washers (8) and screws (7).
(d)Install sealing strips (20), cover strips (19, 21) and screws (18).
(e)Apply sealant (Mat. No. 09-016) to cover gap between sealing strips (20) and floor covering.
(f)Install covers (9), washers (10) and screws (11).
(g)Install folding step (24) and screws (23, 22).
(h)Install trim strips (3), screws (12) and decor strips (4).
(j)Install handles (14) and screws (13).
(9)Install upper attachments (Ref. Fig. 401).
(a)Install bonding straps (9), washers (8) and screws (7) (Ref. 20-28-11, P. Block 1).
(b)Install attachment assemblies (13) and screws (14).
(c)Connect tie-rods (12) and pip pins (11).
NOTE : Adjust tie-rods, if necessary.
(d)Remove protective caps from disconnected hoses and electrical connectors.
(e)Connect electrical connectors (10), 18MC-A, 19MC-A, 6625VC-A and and secure with lockwire 0.6 mm (0.024 in.) dia.
NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).
(f)Connect fresh air hose (6) and secure with clamp (5).
(g)Connect exhaust air hose (4) and secure with clamp (3)
(10)Install galley catering equipment.
(11)Replenish aircraft potable water system (Ref. 12-15-38, P. Block 1).
(12)Install emergency escape path marking light assembly, if removed (Ref. 33-51-17, P. Block 401).

E. Test
(1)Carry out galley equipment operational tests (Ref. 25-34-00, P. Block 501).
(2)Carry out emergency escape path marking light test (Ref. 33-51-17, P. Block 401).

F. Close up
(1)Install ceiling panels in galley area (Ref. 25-23-13, P. Block 401).
(2)Install curtain rails and curtains, if removed (Ref. 25-26-00, P. Block 1).
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

## AFT GALLEY UNIT - REMOVAL/INSTALLATION

WARNING : GALLEY UNIT WEIGHS APPROX. 110 kg (242 lb.).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia. |
| D. | O-Rings |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| G. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| H. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-34-00, P. Block 501 | Galley Equipment |

### 2. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |

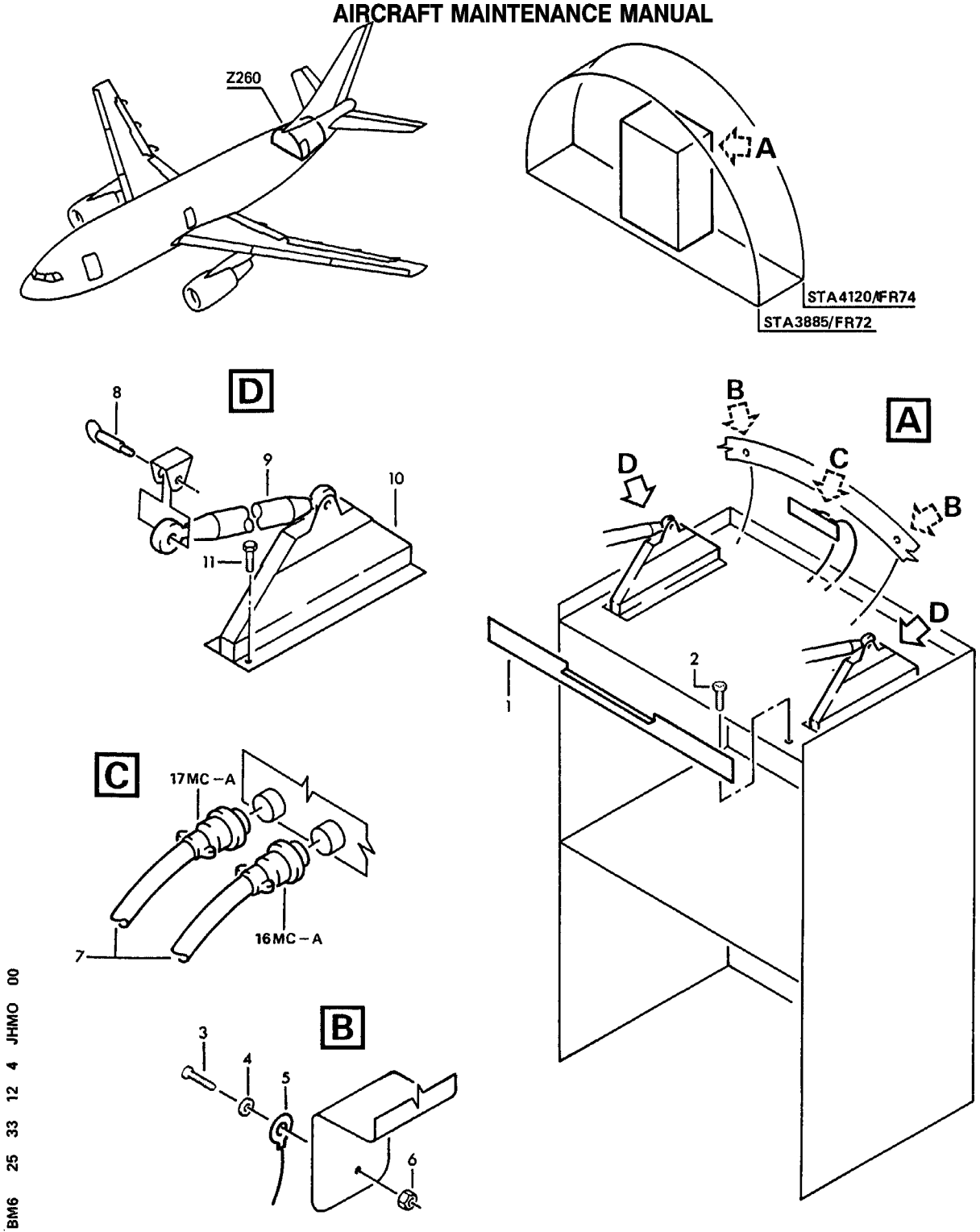
(2)Empty galley compartments.
(3)Remove galley catering equipment.
(4)Remove curtains and curtain rails, if necessary (Ref. 25-26-00, P. Block 1).
(5)Remove ceiling panels in galley area (Ref. 25-23-13, P. Block 401).

B. Removal
(1)Remove upper attachments (Ref. Fig. 401).
(a)Remove screws (2) and pelmet (1).
(b)Remove pip pins (8) and disconnect tie-rods (9).
(c)Remove bolts (11) and attachment assemblies (10).
(d)Remove lockwire and disconnect electrical connectors (7) 16MC-A and 17MC-A.
(e)Fit protective caps to disconnected electrical connectors.
(f)Remove nuts (6), washers (4), bonding straps (5) and screws (3).

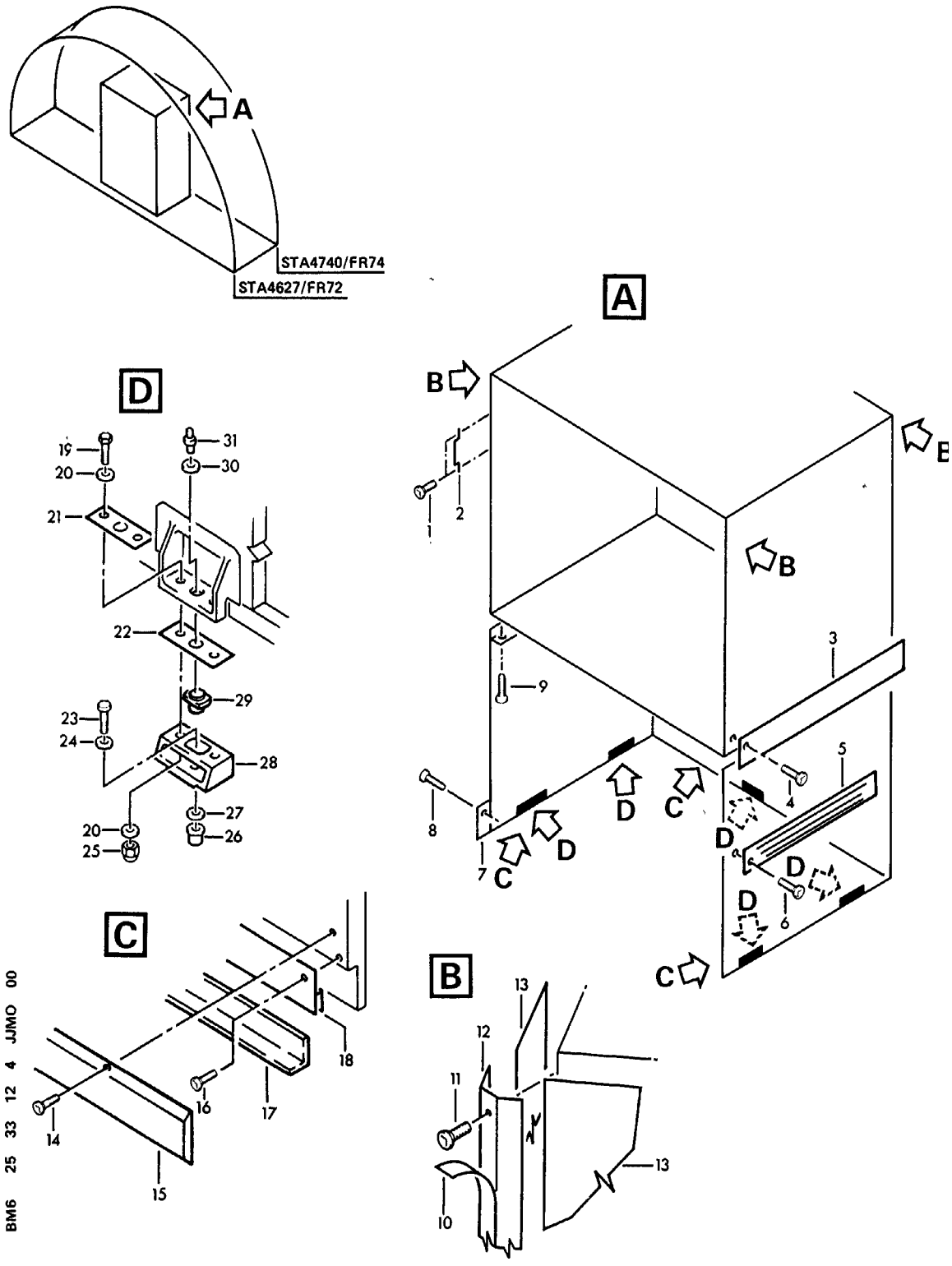
(2)Remove decor panels (Ref. Fig. 402).
(a)Remove screws (1) and handles (2).
(b)Remove screws (6) and bumper strips (5).
(c)Remove screws (8) and kick strips (7).
(d)Remove decor strips (10), screws (11), trim strips (12) and decor panels (13).
(3)Remove lower gally attachments (Ref. Fig. 402).
(a)Remove sealant between sealing strips (17) and floor covering.
(b)Remove screws (14) and covers (15).
(c)Remove screws (16), seal retainers (18) and sealing strips (17).
(d)Remove nuts (25), washers (20), screws (19) and cover plates (21).
(e)Remove eccentric inserts (31) and eccentric bushes (30).
(4)Disconnect galley at splitline (Ref. Fig. 402).
(a)Remove screws (4) and connecting plates (3).
(b)Remove sealant at splitline.
(c)Remove screws (9).
WARNING : GALLEY UNIT WEIGHS APPROX. 110 kg (242 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(5)Lift and support galley upper section.
(6)Remove galley lower section and then galley upper section.
(7)Remove floor attachments (Ref. Fig. 402).
(a)Remove shims (22) noting quantity at each location for subsequent installation.
(b)Remove bushes (29).
(c)Remove bolts (23), washers (24) and fittings (28).
(d)Remove O-rings (27) and bushes (26). Discard O-rings.
(Ref. Fig. 401)
(Ref. Fig. 402)

C. Preparation for Installlation
(1)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(2)Remove sealant remnants from floor covering and galley splitline using cleaning agent (Mat. No. 11-003).
(3)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.
(4)Make certain that placards on replaced or repaired components are in correct positions and in good condition.
(5)If necessary, install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Install floor attachments (Ref. Fig. 402).
(a)Apply grease (Mat. No. 04-001) to threads of bolts (23).
(b)Install bushes (26) and new-O-rings (27).
(c)Install fittings (28), washers (24) and bolts (23).
(d)Install bushes (29).
(e)Install shims (22) making certain that quantity at each location is as noted during removal.
WARNING : GALLEY UNIT WEIGHS APPROX. 110 kg (242 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.




Upper Attachments
Figure 401

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Lower Attachments, Decor Panels and Splitline
Figure 402

(2)Position and support galley upper section.
(3)Position galley lower section and then galley upper section.
(4)Connect galley unit at splitline (Ref. Fig. 402).
NOTE : Splitline related items are colored red.
(a)Install screws (9).
(b)Apply sealant (Mat. No. 08-004) to galley splitline.
(c)Install connecting plates (3) and screws (4).
(5)Install lower adjustable attachments (Ref. Fig. 402)
(a)Install eccentric bushes (30) and eccentric inserts (31).
NOTE : Lateral alignment is achieved at eccentric bushes and inserts.
(b)Install cover plates (21), washers (20), screws (19) and nuts (25).
(c)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(d)Install sealing strips (17), seal retainers (18) and screws (16).
(e)Apply sealant (Mat. No. 08-004) to bond sealing strips (17) to nontextile floor covering.
(f)Install covers (15) and screws (14).
(6)Install decor panels (Ref. Fig. 402).
(a)Install decor panels (13), trim strips (12), screws (11) and decor strips (10).
(b)Install kick strips (7) and screws (8).
(c)Install bumper strips (5) and screws (6).
(7)Install upper attachments (Ref. Fig. 401).
(a)Install bonding straps (5), washers (4), screws (3) and nuts (6). (Ref. 20-28-11, P. Block 1).
(b)Install attachment assemblies (10) and bolts (11).
(c)Connect tie-rods (9) and install pip-pins (8).
NOTE : Adjust tie-rods, if necessary.
(d)Remove protective caps from disconnected electrical connectors.
(e)Connect electrical connectors (7) 17MC-A, 16MC-A and secure with lockwire 0.6mm (0.024 in.) dia.
NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).
(f)Install pelmet (1) and screws (2).
(8)Install galley equipment.

E. Test
(1)Carry out galley equipment operational tests (Ref. 25-34-00, P. Block 501).

F. Close-Up
(1)Install ceiling panels in galley area (Ref. 25-23-13, P. Block 401).
(2)Install curtain rails and curtains, if removed, (Ref. 25-26-00, P. Block 1).
(3)Install passenger seats, if removed, (Ref. 25-21-00, P. Block 401).
(4)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

## AFT GALLEY UNIT - REMOVAL/INSTALLATION

WARNING : GALLEY 6 UNIT WEIGHS APPROX. 221 kg (488 lb.).

WARNING : GALLEY 7 UNIT WEIGHS APPROX. 221 kg (488 lb.).

WARNING : SUPPORT AFT STOWAGE UNIT. AFT STOWAGE UNIT WEIGHS APPROX. 47 kg (104. lb.).

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

R 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Protective Caps |
| C. | Corrosion-Resistant Steel Lockwire, 0.6 mm (0.024 in.) dia. |
| D. | O-Rings |
| E. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 08-004 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| J. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |
| Referenced Procedures | |
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 12-24-38, P. Block 1 | Potable Water System - Draining |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 23-43-00, P. Block 501 | Cabin and Flight Crew Call System |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 33-23-11, P. Block 401 | Area Light Panel |

2. Procedure

A. Job Set-Up

(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | ELEC/GALLEY/CNTOR | 22MC | V78 |
| 133VU | ELEC/GALLEY/CTL | 1XM | V79 |

(2)Drain aircraft potable system (Ref. 12-24-38, P. Block 1).

(3)Remove cabin attendant seats (Ref. 25-21-73, P. Block 401).

(4)Empty galley compartments.

(5)Remove galley catering equipment.
(6)Remove curtains and curtain rails in galley area (Ref. 25-26-00, P. Block 1).
(7)Remove ceiling panels in galley area (Ref. 25-23-13, P. Block 401).

B. Removal

NOTE : The removal/installation procedure of galley unit 6 and galley unit 7 is similar. The procedure of only galley unit 6 is written in the following text.

(1)Remove aft galley pelmet assembly (Ref. Fig. 401).
(a)Remove covers in aft pelmet ceiling to free paw-latch catches (9).
(b)Turn paw-latch catches (9) 90o and lower aft pelmet section (4) until aft pelmet section (4) hangs with safety catches (24) in catches (19).
(c)Push safety catches (24) back free from catches (19) and lower aft pelmet section (16) fully.
(d)Disconnect electrical connectors (14,15), 5603VC78, 5604VC3.
(e)Install protective cap to disconnected electrical connectors.
(f)Remove screws (1) and piano hinge half (2) from aft stowage (30) and remove aft pelmet section (4).
(g)Remove seal strip from aft pelmet section (4). Discard seal strip.
(2)Remove fwd galley pelmet assembly (Ref. Fig. 401)
(a)Remove covers in fwd pelmet ceiling to free paw-latch catches (9).
(b)Turn paw-latch catches (9) 90o and lower fwd pelmet section (29), until fwd pelmet section (30) hangs with safety catches (24) in catches (19).
(c)Push safety catches (24) back free from catches (19) and lower fwd pelmet section (30) fully.
(d)Release clamps (26) and disconnect fresh air hoses (27).
(e)Cut and remove lockwire and disconnect electrical connectors (11,12) 70ML-A, 60ML-A.
(f)Install protective caps to disconnected hoses and electrical connectors.
(g)Remove screws (1) and piano hinge half (2) from aft galley unit 6 and remove fwd pelmet section.
(3)Remove upper attachments (Ref. Fig. 401, 402)
(a)Remove pip pins (31) and disconnect tie-rods (32).
(b)Cut and remove lockwire and disconnect electrical connectors (11) 38MC-A, 37MC-A, 39MC-A and 40MC-A.
(c)Release clamp (47) and disconnect exhaust air hose (48).
(d)Release clamp (45) and disconnect fresh air hose (46).
(e)Install protective caps to disconnected hoses and electrical connectors.
(f)Remove screws (18), washers (17) and bonding straps (16).
(4)Remove decor panels and outboard stowages LH and RH (Ref. Fig. 402).
(a)Remove screws (56) and washers (57).
(b)Remove decor strips (39), screws (40), trim strips (41) and decor panels (43).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(d)Remove screws (56), washers (57) and outboard stowages (44).
(5)Disconnect cooling system (Ref. Fig. 403).
(a)Release clamps (81,84) and cooling ducts (82,83).
(b)Install protective caps to cooling duct outlets on aircraft floor.
(6)Disconnect water system (Ref. Fig. 403).

NOTE : Make sure that water shutoff valve (38) is in CLOSED position.

(a)Remove screws (93), washers (92) and panels (91).
(b)Remove screws (94) and covers (90).
(c)Release clamps (88) and disconnect waste water line (89).
(d)Disconnect fresh water line (34) at union (33).
(e)Install protective caps to disconnected lines and unions.
(7)Disconnect water system at splitline (Ref. Fig. 403, 404)
(a)Release clamp (102) and disconnect fresh water line (101).
(b)Release clamp (104) and disconnect waste water line (103).
(c)Release clamps (62),(65) and disconnect waste water lines (61),(64).
(d)Install protective caps to disconnected lines.
(8)Remove lower attachments (Ref. Fig. 402, 403).
(a)Remove sealant between sealing strips (55) and floor covering.
(b)Remove screws (53), seal retainers (52) and sealing strips (55).
(c)Remove screws (80) and covers (79).
(d)Remove screws (67), washers (68) and cover plates (69).
(e)Remove shims (70) noting quantity at each location for subsequent installation.
(g)Open door (99) and remove screws (95), washers (96), covers (97) and fittings (98).
(9)Disconnect galley at splitline (Ref. Fig. 404)
(a)Remove sealant from galley splitline.
(b)Remove screws (105) from lower galley section at splitline.

NOTE : Splitline screws are colored red.

(10)Remove galley unit (Ref. Fig. 402).
(a)Remove screws (51) and washers (50) from aft stowage (49).
WARNING : GALLEY UNIT 6 WEIGHS APPROX. 221 kg (488 lb).

WARNING : GALLEY UNIT 7 WEIGHS APPROX. 221 kg (488 lb).

WARNING : SUPPORT AFT STOWAGE UNIT. AFT STOWAGE UNIT WEIGHS APPROX 47 kg (104 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(b)Lift and remove galley upper section and then galley lower section.

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(c)Remove aft stowage unit (49).
(11)Remove lower attachments (Ref. Fig. 403).
(a)Remove shims (73),(85) noting quantity at each location for subsequent

location.
(b)Remove bolts (74), washers (76) and saddles (75).
(c)Remove O-rings (77) and bushes (78). Discard O-rings.
(12)Remove LH and RH stowages.
(Ref. Fig. 404)

C. Preparation for Installation
WARNING : CLEANING AGENT (MAT. NO 11-003) IS DANGEROUS.
(1)Remove sealant remnants from galley splitlines and nontextile floor covering interface using cleaning agent (Mat. No. 11-003).
(2)Visually inspect nontextile floor covering for damage and proper sealing. Replace, if necessary (Ref. 25-28-12, P. Block 401).
(3)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.
(4)Make certain that placards on replaced or repaired components are in correct positions and in good condition.
(5)If necessary, install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Install lower attachments (Ref. Fig. 402, 403).
(a)Apply grease (Material No. 04-001) to threads of bolts (74).
(b)Install bushes (78) and new O-rings (77).
(c)Install saddles (75), washers (76) and bolts (74).
(d)Install shims (73),(85) making certain that quantity at each location is as noted during removal.
(2)Install galley units (Ref. Fig. 404).

WARNING : GALLEY UNIT 6 WEIGHS APPROX. 221 kg (488 lb.).

WARNING : GALLEY UNIT 7 WEIGHS APPROX. 221 kg (488 lb.).

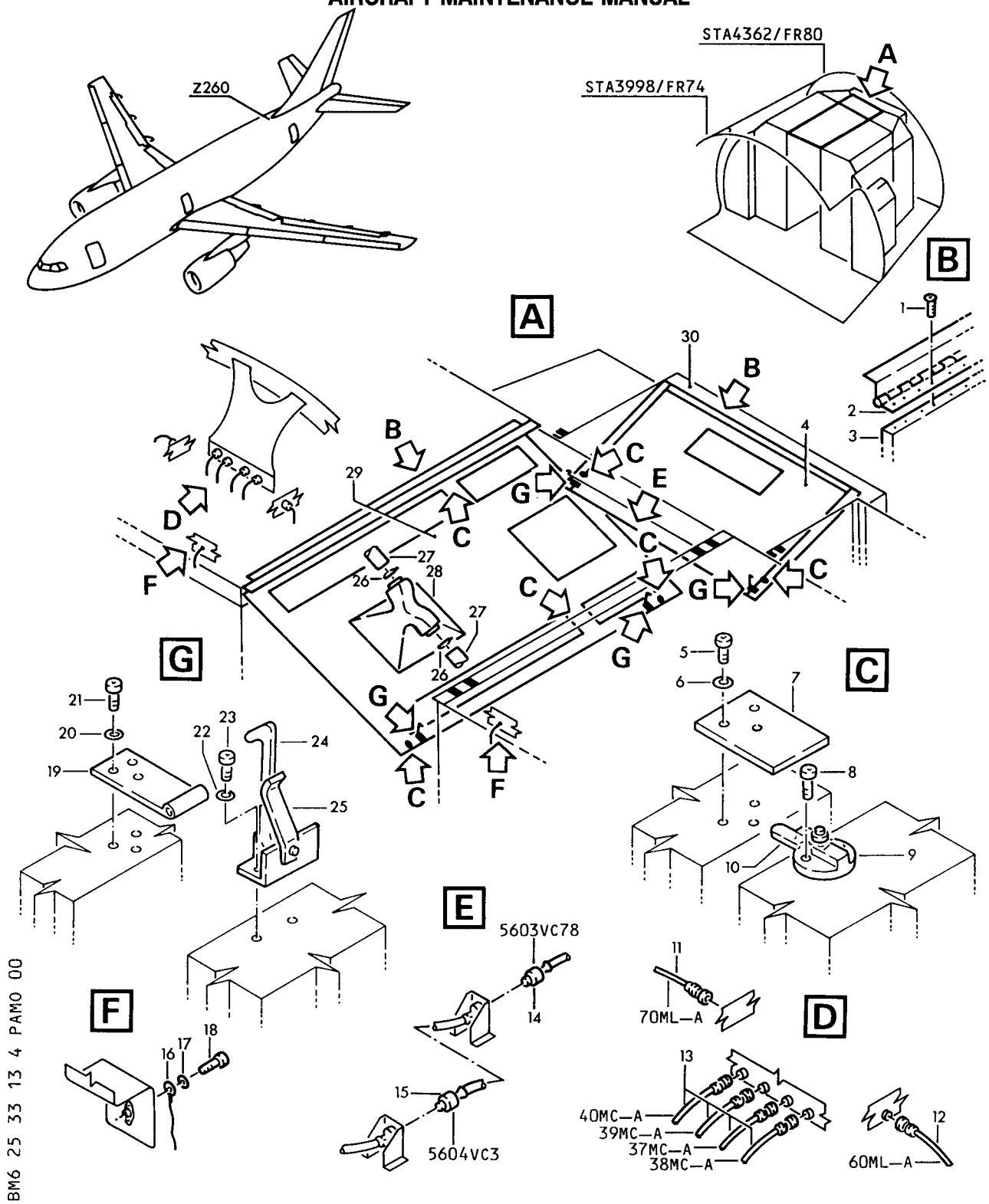
WARNING : SUPPORT AFT STOWAGE UNIT. AFT STOWAGE UNIT WEIGHS APPROX: 47 kg (104 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

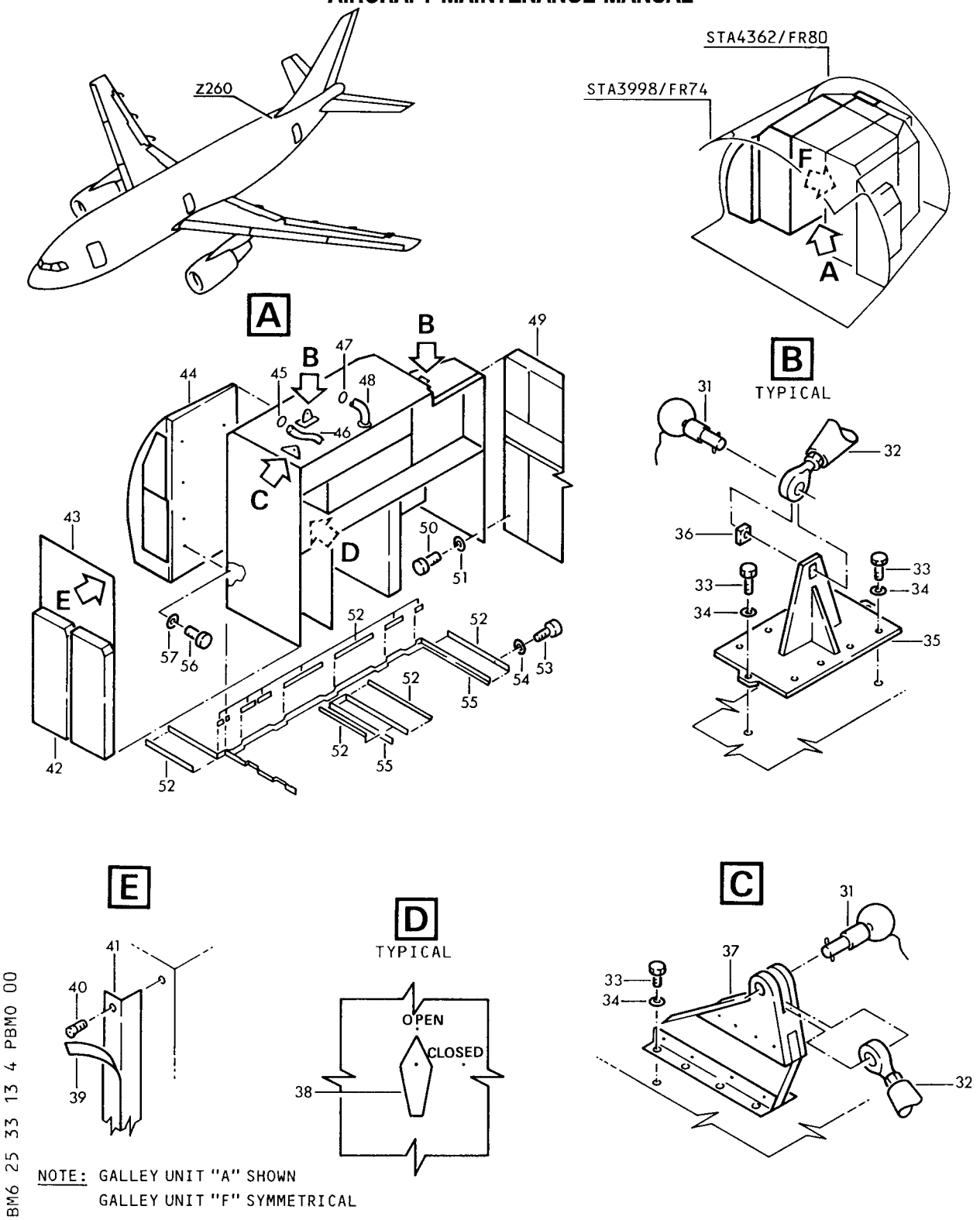
(a)Position and support aft stowage unit.
(b)Install galley lower section and then galley upper section.
(3)Connect galley at splitline (Ref. Fig. 404, 402)
(a)Install screws (105).

NOTE : Splitline screws are colored red.

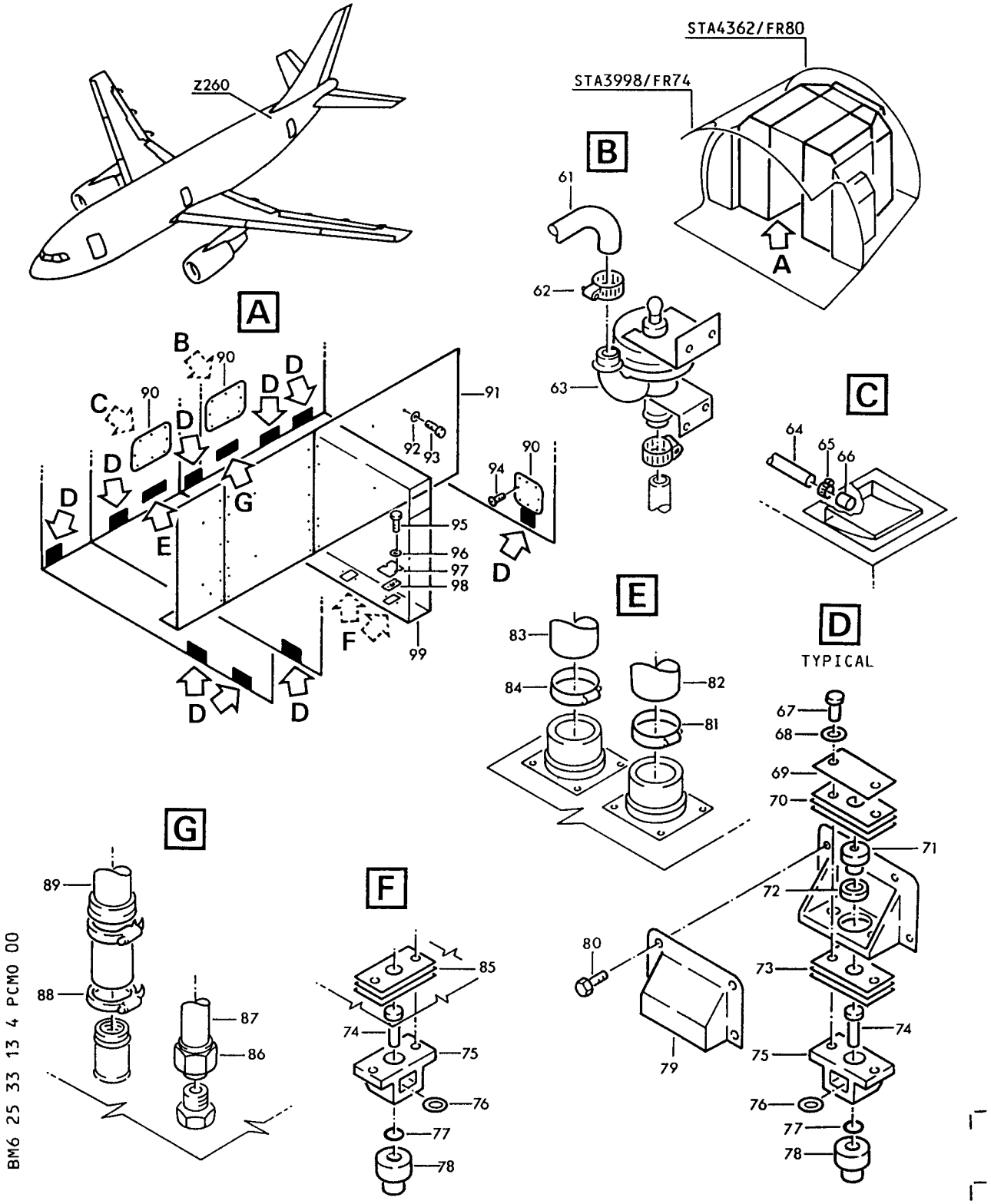
(b)Connect waste water line (64) and secure with clamp (65).
(c)Connect fresh water line (61) and secure with clamp (62).
(d)Apply sealant (Material No. 08-004) to galley splitline.
(e)Install aft stowage unit (49), washers (51) and screws (50).
(4)Install lower adjustable attachments (Ref. Fig. 402, 403).
(a)Install eccentric washers (72) and eccentric bushings (71).
(b)Install shims (70) making certain that quantity at each location is as noted during removal.



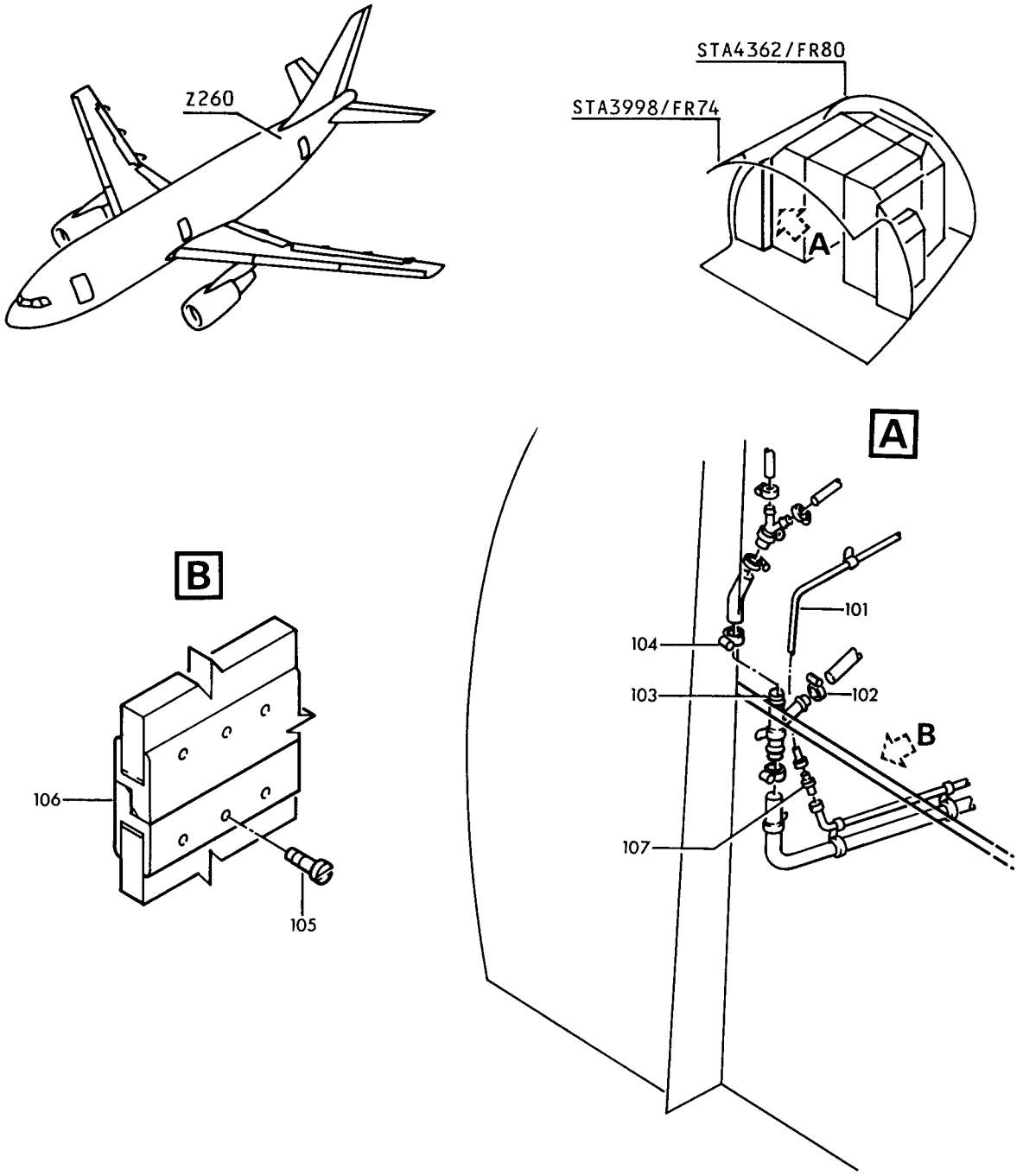

Galley Pelmet Assembly
Figure 401




Upper Attachments and Stowage Units
Figure 402




Lower Attachments and Water System
Figure 403




BM6 25 33 13 4 PDMO 00

Splitline Attachments
Figure 404

NOTE : Adjust galley at eccentric inserts, if necessary.

(c)Install cover plates (69), washers (68) and bolts (67).
(d)Install fittings (98), covers (97), washers (96) and screws (95).
(e)To prevent corrosion, apply protective compound (Mat. No. 15-008) to lower fittings.
(f)Install covers (79) and screws (80).
(g)Install sealing strips (55), seal retainers (52), washers (54) and screws (53).
(h)Apply sealant (Material No. 08-004) to cover gap between sealing strips (55) and floor covering.

(5)Connect water system (Ref. Fig. 402, 403).
(a)Remove protective caps from disconnected lines and unions.
(b)Wrap sealing tape (Mat. No. 05-022) around threads of fresh water union.
(c)Connect fresh water line (87) at union (86).
(d)Connect waste water line (89) and secure with clamp (88).
(e)Install covers (90) and screws (94).
(f)Make certain that water shutoff valve (38) is in the ON position.

(6)Connect cooling system (Ref. Fig. 403).
(a)Remove protective caps from cooling duct outlets on aircraft floor.
(b)Connect cooling air ducts (82),(83) and secure with clamps (81),(84).
(c)Install cover (90) and screws (94).

(7)Install decor panel and outboard stowages LH and RH (Ref. Fig. 402, 403).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(a)Position stowages (44) and install washers (57), screws (56).
(b)Install panels (91), washers (92) and screws (93).
(c)Install decor panel (43), trim strips (41), screws (40) and decor strips (39).

(8)Install upper attachments (Ref. Fig. 401, 402, 403).
(a)Install sliding rings (36), tie-rods (32) and pip pins (31).

NOTE : Adjust tie-rods, if necessary.

(b)Install bonding straps (16), washers (17) and screws (18) (Ref. 20-28-11, P. Block 1).
(c)Remove protective caps from disconnected hoses and electrical connectors.
(d)Connect exhaust air hose (48) and secure with clamp (47).
(e)Connect electrical connectors (13), 40MC-A, 39MC-A, 37MC-A and 38MC-A and safety with lockwire 0.6 mm (0.024 in.) dia.
NOTE : Make sure that the connector covers the complete thread of the receptacle. The distance between the connector attaching bracket and the connector must be approx. 3.3 mm (0.13 in.).
(f)Install tie-rod (32) and pip pins (31).

NOTE : Adjust tie-rod, if necessary.

(9)Install fwd galley pelmet assembly (Ref. Fig. 401).
(a)Position and support fwd galley pelmet (29). Install piano hinge half (2) and screws (1).
(b)Remove protective caps from hoses and electrical connectors.
(c)Connect electrical connectors (11, 12), 70ML-A, 60ML-A, and safety with lockwire 0.6 mm (0.024 in.) dia.
(d)Connect fresh air hoses (27) and secure with clamps (26).
(e)Raise fwd pelmet section (30) until safety catches (24) catch hold of catches (19).
(f)Raise fwd pelmet section (30) fully and turn paw-latch catches (9) 90o to lock fwd pelmet section.
(g)Install covers at fwd pelmet ceiling to cover paw-latch catches (9).
(10)Install aft pelmet section (Ref. Fig. 401)
(a)Install seal strip to aft pelmet section.
(b)Position and support aft galley pelmet section (4). Install piano hinge half (2) and screws (1).
(c)Remove protective caps from hoses and electrical connectors.
(d)Connect electrical connectors (14, 15) 5603VC78, 5604VC3, and safety with lockwire 0.6 mm (0.024 in.) dia.
(e)Raise aft pelmet section (4) until safety catches (24) catch hold of catches (19).
(f)Raise aft pelmet section (4) fully and turn paw-latch catches (9) 90o to lock aft pelmet section.
(g)Install covers at aft pelmet ceiling to cover paw-latch catches (9).
(11)Install galley catering equipment.

E. Test
(1)Carry out galley area light operational tests (Ref. 33-23-11, P. Block 401).

F. Close-Up
(1)Install cabin attendant seats (Ref. 25-21-61, P. Block 401).
(2)Install utility area ceiling panels (Ref. 25-23-13, P. Block 401).
(3)Install curtain rails and curtains (Ref. 25-26-00, P. Block 1).
(4)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# GALLEY EQUIPMENT - DESCRIPTION AND OPERATION

## 1. General

Galleys, which are not used only as storage units, are provided with electrically operated equipment for the preparation and storage of food and beverages.

## 2. Description and Operation

(Ref. Fig. 001)

NOTE : Typical electrically operated galley equipment.

### A. Oven

The oven heats precooked frozen food. The desired temperature and time are selected on the oven control box. To maintain the oven temperature at the selected level, the electrical supply to heating elements is switched by a thermostat.

### B. Water Heater

The water heater is supplied with potable water via the galley. To maintain the water at the required temperature, the electrical supply to the heating elements is switched by a thermostat. Water is drawn from the water heater using the faucet mounted on the front panel.

### C. Hot Jug

The hot jug, when filled with a hot beverage, will maintain the beverage at a constant temperature. The electrical supply to the heating element is switched by a thermostat to maintain the beverage at the required temperature.

### D. Hot Cup

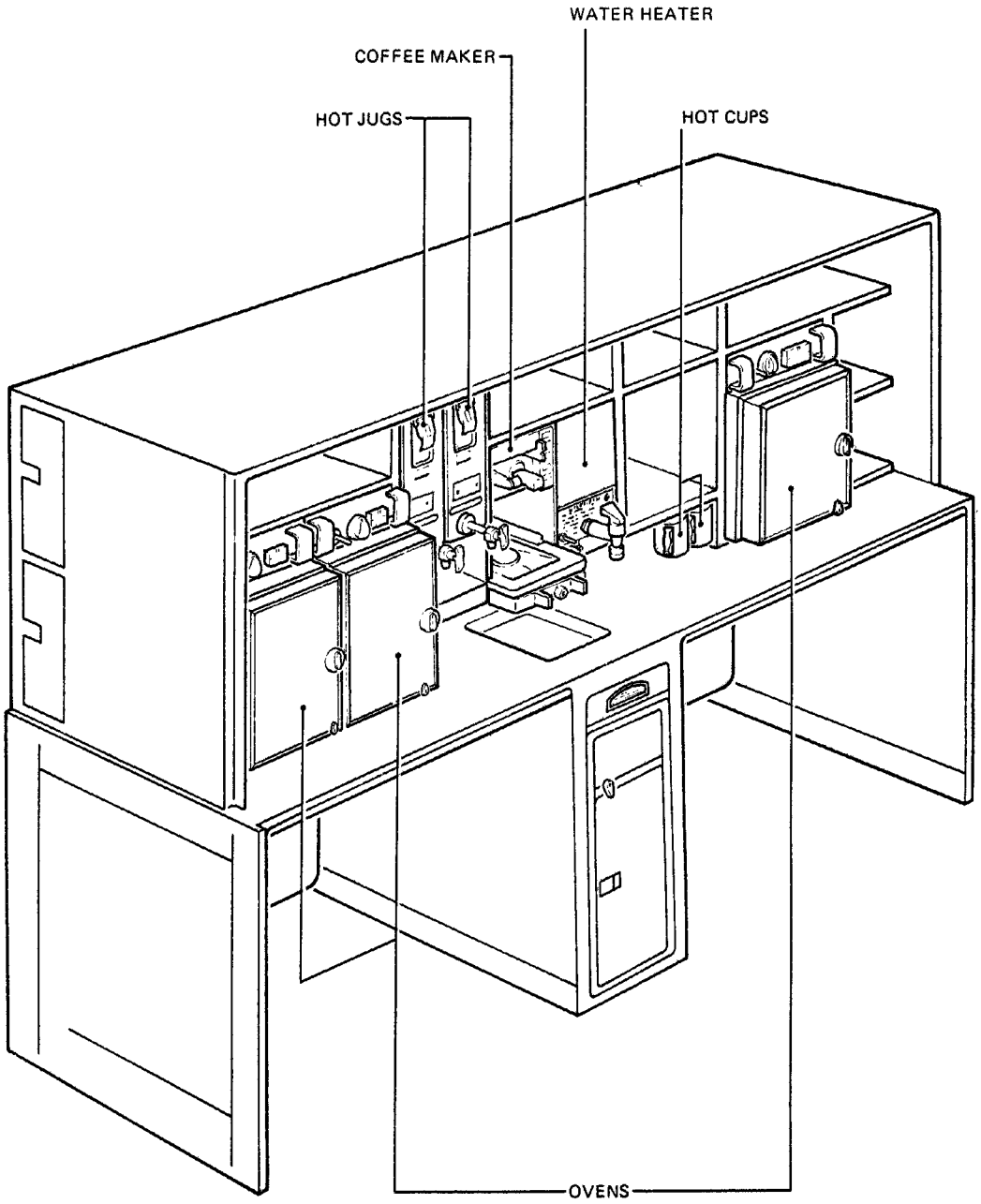
The hot cup boils liquids. To maintain the beverage at the required temperature the electical supply to the heating element is switched by a thermostat.

### E. Coffee Maker

The coffee maker brews fresh coffee and stores the coffee in a heated container which has a faucet mounted on the front or in a server which is heated by a warmer plate.
Potable water is supplied to the unit via the galley. Hot or hot and cold water faucets may be mounted on the front of the unit.

### F. Refrigerator

The refrigerator stores and chills food and beverages. Operating controls and a temperature gage are fitted to the RH door pillar. The controls consist of an ON-OFF switch, a CHILL-OR-FREEZE switch and an OVERHEAT light.




BM6 25 34 00 0 AAMO

Typical Galley Equipment
Figure 001

## REFRIGERATION UNIT - SERVICING

NOTE : Servicing of installed refrigeration units consists of replacement, check and cleaning of the condenser air filter.

1. Reasons for the Job

A. To check filter elements.

B. To clean filter elements.

C. To replace damaged filter elements.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| R A. | Soap (Local Purchase) |

Referenced Procedure
- 25-34-11, P. Block 401 — Refrigeration Unit

3. Procedure

A. Job Set-Up
(1)Gain access to refrigeration units (Ref. 25-34-11, P. Block 401).
(2)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | GALLEY/CTL | 1XM | V79 |
| 133VU | GALLEY/CONTRL | 52MC | V78 |

B. Replacement of Condenser Air Filter
(1)Remove filter by pulling free from Velcro tape.
(2)Install replacement filter.
(a)Position filter and press contour edges to ensure good adhesion.
(b)Check that filter is secure against the condenser core.

C. Check
(1)Check filter for integrity and serviceable Velcro tape.

D. Cleaning
R (1)Wash filter using soap and water.
(2)Dry filter using compressed air.
NOTE : Regulate pressure to 15 psi maximum.

E. Close-Up
(1)Remove safety clips and tags and close circuit breakers 1XM and 52MC.
(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

GALLEY EQUIPMENT - ADJUSTMENT/TEST

WARNING : MAKE CERTAIN THAT GALLEY POTABLE WATER SHUTOFF VALVE IS OPEN AND WATER HEATER IS FULL WHEN BOIL CHECKS ARE CARRIED OUT.

1. Galley Water Heater Test

A. Reason for the Job
To make certain that thermostats operate correctly

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Container, Capacity 10 l (2.7 US gal.) |
| B. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 38-40-00, P. Block 301 | Air Supply |

C. Procedure
(1)Job Set-Up
(a)Place container under heater faucets.
(b)Connect electrical ground power unit, and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(c)Make certain that electronics racks ventilation is correct.
(d)Make certain that the following circuit breakers are closed:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | GALLEY | 1MC | GEN1/A 5 |
| 101VU | GALLEY | 2MC | GEN1/A 8 |
| 101VU | GALLEY | 3MC | GEN2/A 5 |
| 101VU | GALLEY | 4MC | GEN2/A 8 |
| 101VU | GALLEY | 11XN | GEN1/A11 |
| 101VU | GALLEY | 16XN | GEN2/C 2 |
| 101VU | GALLEY | 29MC | GEN1/A 2 |
| 101VU | GALLEY | 30MC | GEN1/C14 |
| 133VU | GALLEY/CNTR | 52MC | V78 |
| 133VU | GALLEY/CTL | 1XM | V79 |

(e)Make certain that circuit breakers on galley electrical panel are closed.
(f)Make certain that water heater discharge valve is closed (lever placed in RH position).
(g)Pressurize potable water system (Ref. 38-40-00, P. Block 301).
(h)Open galley water shutoff valve.

(2)Water Heater Operational Test (Ref. Fig. 501)

| ACTION | RESULT |
|---|---|
| 1. Press water heater faucet. | - Water flows steadily from faucet. |
| 2. Release water heater faucet. | - Water flow stops. |
| 3. Place power switch in **ON** position. | - **WHITE** and **AMBER** indicator lights come on.<br>- After approx. 10 minutes, **AMBER** light goes off. |

NOTE : Should internal thermostat fail to operate, external overheat thermostat will cut off electrical supply within 30 seconds.

| | |
|---|---|
| 4. Press water heater faucet and drain 1.5 l (0.4 US gal.) of water. | - **AMBER** light comes on again.<br>- After approx. 1.5 minutes, **AMBER** light goes off. |
| 5. Place power switch in **OFF** position. | - **WHITE** indicator light goes off. |

(Ref. Fig. 501)

(3)Close-Up

(a)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(b)Remove and empty container.

(c)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

2. Galley Oven Test

CAUTION : **DO NOT OPERATE EMPTY OVEN AT A TEMPERATURE OF 250 °C FOR LONGER THAN 10 MINUTES.**

A. Reason for the Job

To make certain that temperature controllers, timer and relays operate correctly

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |

| Referenced Procedure | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |

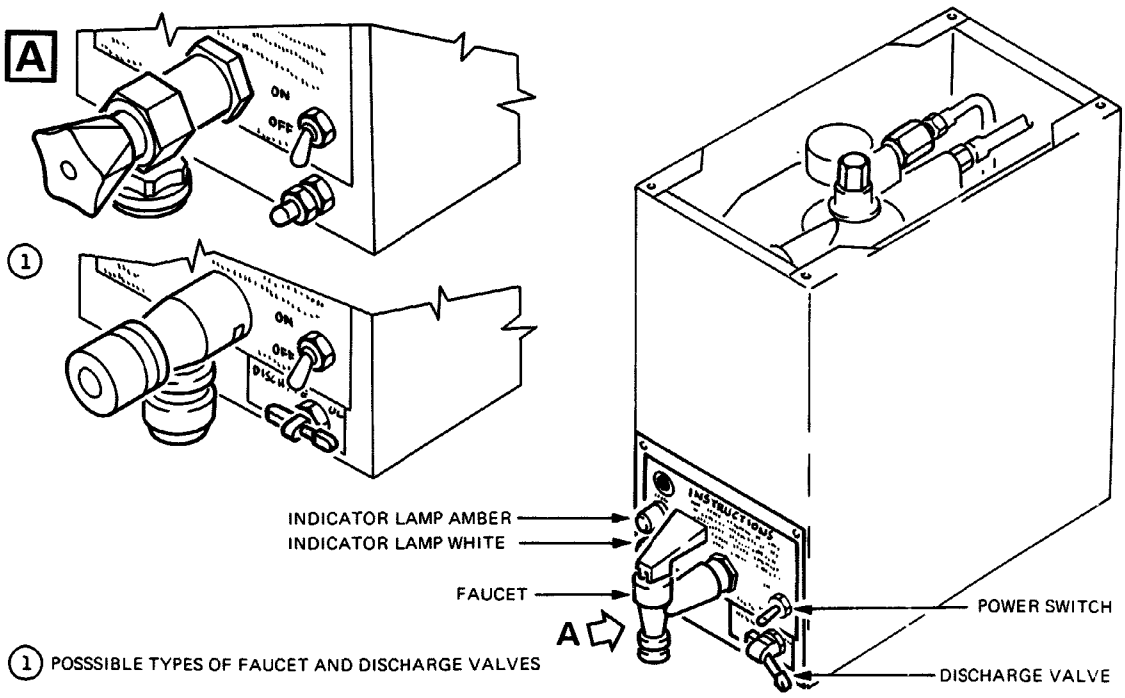
C. Procedure

(1)Job Set-Up

(a)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).

(b)Make certain that electronics racks ventilation is correct.

(c)Make certain that the following circuit breakers are closed:




BM6 25 34 00 5 ABMO

Galley Water Heater
Figure 501

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | GALLEY | 1MC | GEN1/A 5 |
| 101VU | GALLEY | 2MC | GEN1/A 8 |
| 101VU | GALLEY | 3MC | GEN2/A 5 |
| 101VU | GALLEY | 4MC | GEN2/A 8 |
| 101VU | GALLEY | 11XN | GEN1/A11 |
| 101VU | GALLEY | 16XN | GEN2/C 2 |
| 101VU | GALLEY | 29MC | GEN1/A 2 |
| 101VU | GALLEY | 30MC | GEN1/C14 |
| 133VU | GALLEY/CNTR | 52MC | V78 |
| 133VU | GALLEY/CTL | 1XM | V79 |

(2)Oven Operational Test

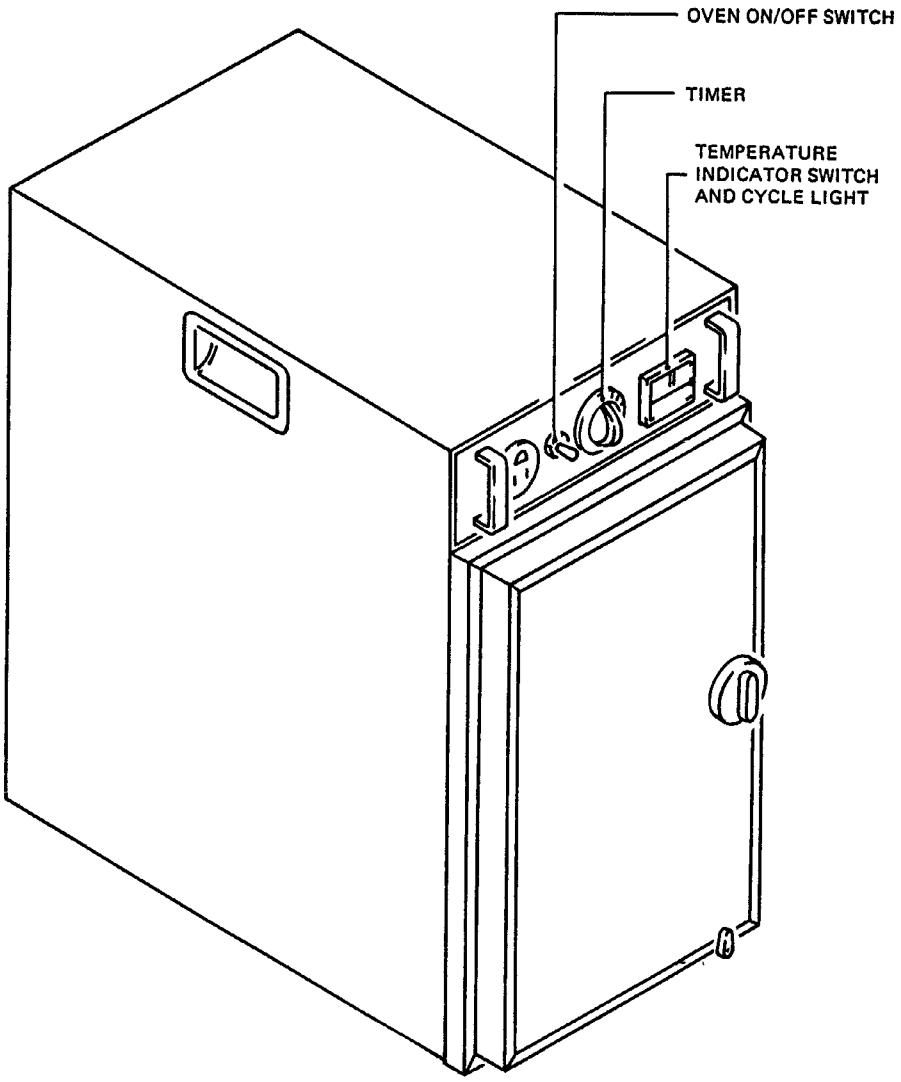
| ACTION | RESULT |
|---|---|
| 1. Place OVEN/OFF/OUTLET switch in OVEN position. | |
| 2. Rotate TIMER switch to select five minutes, and press indicator switch to select 150 °C. | - CYCLE light comes on (red), indicator light comes on (amber) and fan starts.<br>- Oven heats to selected temperature and CYCLE light goes off.<br>- After short delay, CYCLE light comes on. |
| 3. Place OVEN/OFF/OUTLET switch in OFF position. | - Oven fan stops, indicator and CYCLE lights go off. |
| 4. Place OVEN/OFF/OUTLET switch in OVEN position. | - Oven fan starts, indicator and CYCLE lights come on. |
| CAUTION : DO NOT OPERATE EMPTY OVEN AT A TEMPERATURE SETTING OF 250 °C FOR LONGER THAN 10 MINUTES. | |
| 5. Rotate TIMER switch to select ten minutes and press indicator switch to select 250 °C. | - Oven heats to selected temperature and CYCLE light goes off.<br>- After short delay, CYCLE light comes on. |
| 6. Allow TIMER switch to return to zero. | - Oven fan stops, CYCLE and indicator lights go off. |
| 7. Place OVEN/OFF/OUTLET switch in OFF position. | |

(Ref. Fig. 502)

(3)Close-Up

(a)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(b)De-energize the aircraft electrical network, and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).




BM6 25 34 00 5 ACNO 00

Galley Oven
Figure 502

## GALLEY EQUIPMENT - ADJUSTMENT/TEST

1. Galley Oven Test

A. Reason for the Job

To make certain that temperature controllers, timer and relays operate correctly

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| Referenced Procedure<br>- 24-41-00, P. Block 301 | AC External Power Control |

C. Procedure

(1)Job Set-Up

(a)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).

(b)Make certain that electronics racks ventilation is correct.

(c)Make certain that the following circuit breakers are closed:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | GALLEY | 1MC | |
| 101VU | GALLEY | 2MC | |
| 101VU | GALLEY | 3MC | |
| 101VU | GALLEY | 4MC | |
| 101VU | GALLEY | 29MC | |
| 101VU | GALLEY | 30MC | |
| 133VU | GALLEY/CTL | 1XM | V79 |
| 133VU | GALLEY/CNTOR | 22MC | V78 |

(d)Close oven circuit breakers on galley electrical panel.

(e)Make certain that oven door is closed.

(2)Oven Operational Test

R (Ref. Fig. 501)

| R ACTION | RESULT |
|---|---|
| R 1. Place TEMPERATURE switch to 150 °.<br>R 2. Rotate TIMER switch to ten minutes. | - POWER ON indicator light comes on.<br>- Internal fan rotates.<br>- HEATER ON indicator light comes on.<br>- Oven heats to selected temperature and HEATER ON indicator goes off.<br>- After short delay HEATER ON indicator comes on again. |

| ACTION | RESULT |
|---|---|
| 3. Allow TIMER switch to return to 0. | - POWER ON and HEATER ON indicator lights go off.Verify audio signal.<br>Fan stops rotating.<br>Oven stops heating. |

4. Place TEMPERATURE switch to 0 °.
   (3)Close-Up
   (a)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
   (b)De-energize the aircraft electrical network, and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

2. Galley Coffee Maker Test

A. Reason for the Job
To make certain that water and temperature sensors operate correctly

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| B. | Container |

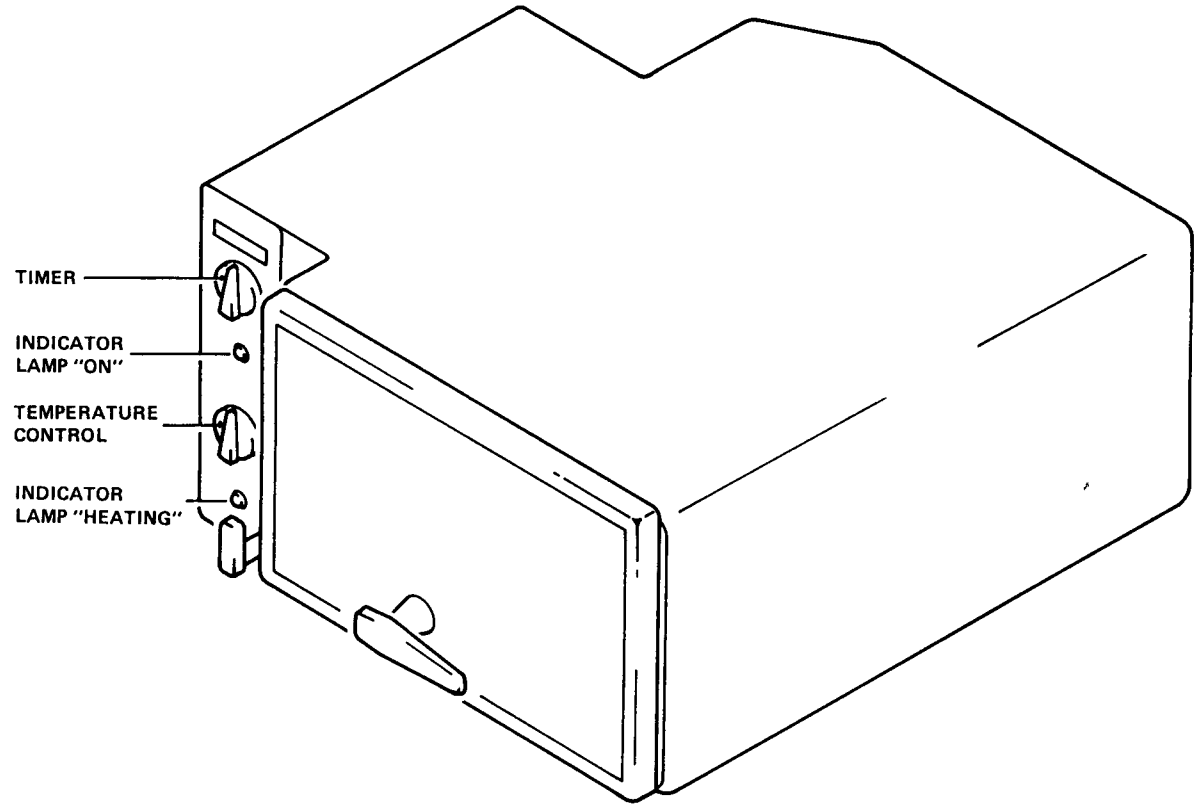
Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 38-41-00, P. Block 301 | Air Supply |

C. Procedure
(1)Job Set-Up
(a)Make certain that potable water system is pressurized (Ref. 38-41-00, P. Block 301).
(b)Connect electrical ground power unit, and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(c)Make certain that electronics racks ventilation is correct.
(d)Make certain that the following circuit breakers are closed:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | GALLEY | 1MC | |
| 101VU | GALLEY | 2MC | |
| 101VU | GALLEY | 3MC | |
| 101VU | GALLEY | 4MC | |
| 101VU | GALLEY | 29MC | |
| 101VU | GALLEY | 30MC | |
| 133VU | GALLEY/CTL | 1XM | V79 |
| 133VU | GALLEY/CONTR | 22MC | V78 |

(e)Close COFFEE MAKER circuit breakers on galley electrical panel.




BM6 25 34 00 5 GCMO 00

Galley Oven
Figure 501

R

(f)Make certain that galley potable water shutoff valve is open.

(2)Coffee Maker Operational Test

NOTE : Operational test procedure is the same for all coffee makers.

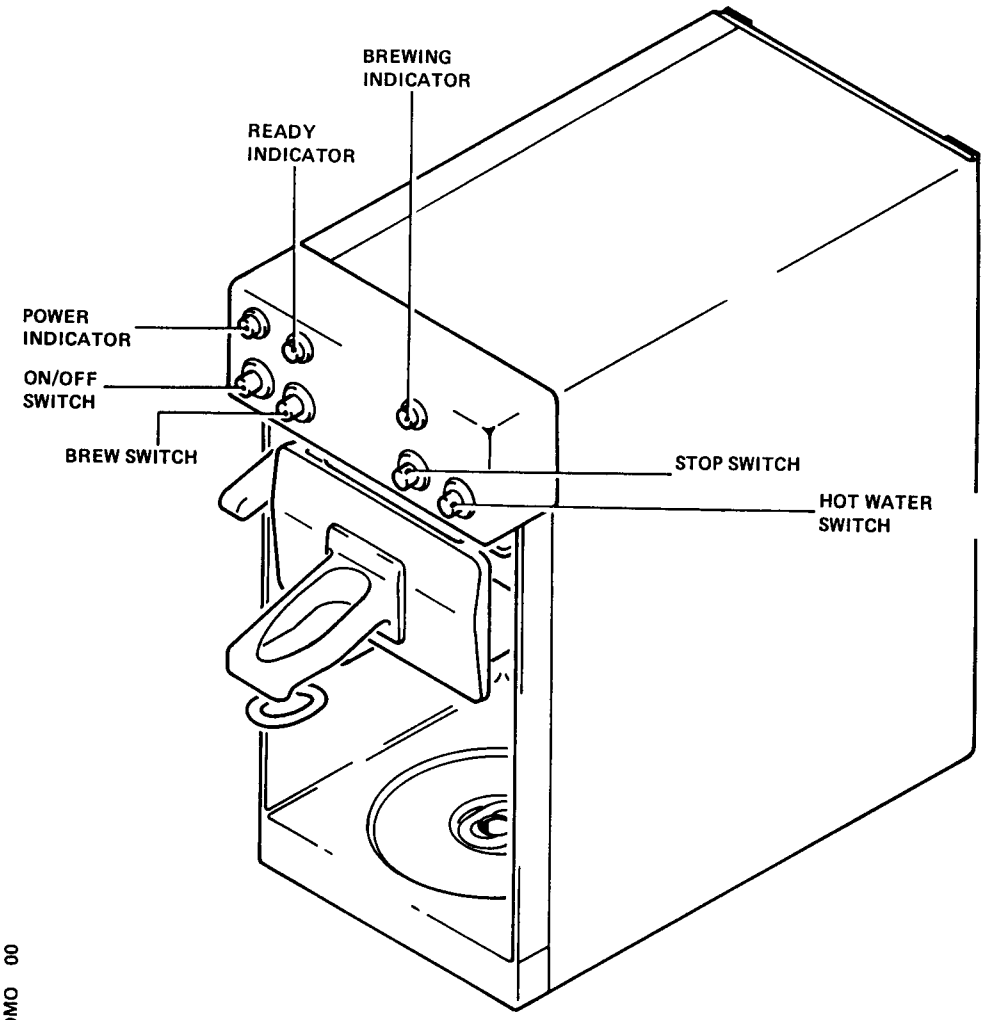
R (Ref. Fig. 502)

| ACTION | RESULT |
|---|---|
| 1. Press and release **ON** switch. | - Green indicator light **POWER** comes on. |
| 2. Place container under faucet. | |
| 3. Press and release **BREW** switch. | - Yellow indicator light **BREWING** comes on.<br>- When brew temperature is reached, hot water flows from faucet into container.<br>- When brewing cycle has finished, blue indicator light **READY** comes on and yellow indicator light **BREWING** goes off. |
| 4. Press and release **HOT WATER** switch. | - Hot water flows from faucet into container. |
| 5. Press and release **STOP** switch. | - Hot water ceases to flow. |
| 6. Finaly press and release **ON** switch. | - Green indicator light **POWER** goes off. |

(3)Close-Up

(a)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(b)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).




BM6 25 34 00 5 GDMO 00

Galley Coffee Maker
Figure 502

R

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

REF: MMEL 1-25, ITEM 17

1.Deactivation

A. Reason for the Job

Deactivation of the galley waste compartment flapper-door.

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Warning Notice |
| (2)Material No. 08-052 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (3)Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

C. Procedure

(1)Job set-up

(a)In the galley with the defective/missing flapper-door, get access to the galley waste compartment.

(2)Deactivation

(a)Make sure that no waste or other items can be put into the galley waste compartment.

1 If the galley waste compartment flapper-door is defective make a blockage to the flapper-door:

- Clean the area around the flapper-door using cleaning agent (Material No. 11-003)
- Cover the defective flapper-door with adhesive tape (Material No. 08-052)
- Put a warning notice in position to tell persons not to use the galley waste compartment.

2 If the galley waste compartment flapper-door is missing:

- Clean the area around the missing flapper-door using cleaning agent (Material No. 11-003)
- Close the opening of missing flapper-door with adhesive tape (Material No. 08-052).
- Put a warning notice in position to tell persons not to use the galley waste compartment.

(b)Make an entry in the logbook.

(3)Close-Up

(a)Make sure that the working area is clean and clear of tools and miscellaneous items of equipment.

2. Reactivation

A. Reason for the Job

This procedure is required to restore the galley waste compartment to

the normal condition.

B. Procedure
(1)Job Set-Up
(a)Get access to the galley waste compartment with the defective/missing flapper-door.
(2)Reactivation
(a)Remove the temporarily installed adhesive tape.
(b)Repair or replace the galley waste compartment flapper-door.
(c)Remove the entry from the logbook.
(d)Remove the warning notice.
(3)Close-Up
(a)Make sure that the working area is clean and clear of tools and miscellaneous items of equipment.

## REFRIGERATION UNIT - REMOVAL/INSTALLATION

WARNING : EACH REFRIGERATION UNIT WEIGHS APPROX. 40 kg (88 lb.).
CAUTION : IF THE AIR CHILLER IS TURNED ON ITS SIDE DURING REMOVAL OR INSTALLATION, ALLOW THE UNIT TO SIT IDLE FOR 1 HOUR IN AN UPRIGHT POSITION BEFORE APPLYING POWER.

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.3 m (7.5 ft.) |
| B. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| C. | Blanking Caps |
| D. | Corrosion-Resistant Steel Lockwire, 0.8 mm (0.032 in.) dia. |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 53-10-55, P. Block 401 | FWD Cargo Compartment Fixed Partition |

### 2. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | GALLEY/CTL | 1XM | V79 |
| 133VU | GALLEY/CNTOR | 22MC | V78 |

(2)Position access platform at FWD and AFT cargo compartment, as required.
(3)Open FWD and AFT cargo compartment doors and secure with safety lock (Ref. 52-30-00, P. Block 301).
(4)Gain access to refrigeration units:
(a)For unit located in avionics compartment, open door 132AZ.
(b)For units located in aft cabin underfloor compartment, open access door 162AZ.

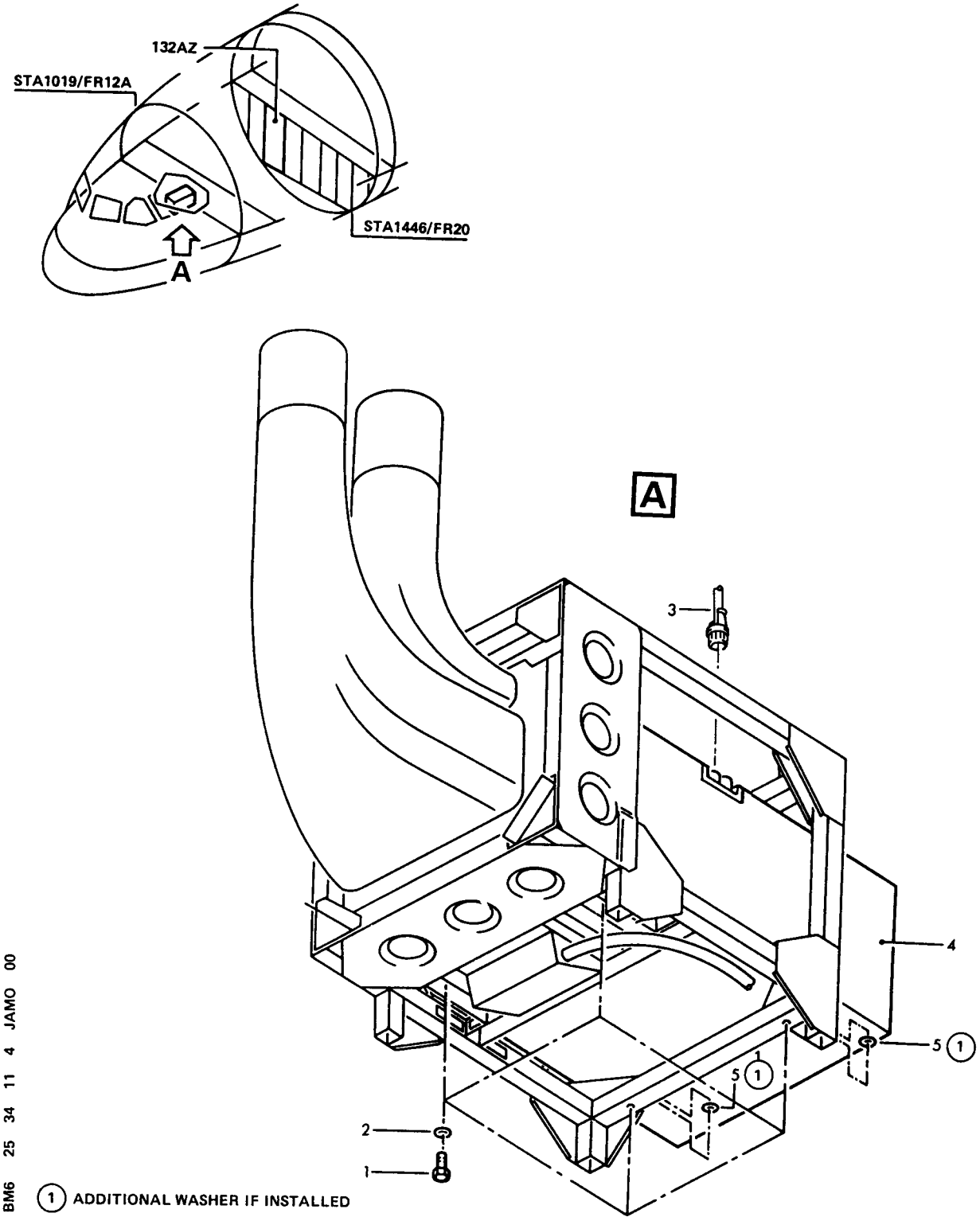
B. Removal
(1)Remove refrigeration unit in avionics compartment (Ref. Fig. 401).
(a)Disconnect electrical connector (3) and fit blanking caps.
(b)Cut and remove lockwire and remove bolts (1), washers (2), bushes (5) and refrigeration unit (4).
NOTE : Additional bushes (5) may have been installed to align refrigeration unit with air ventilation duct seal and must be recorded, if installed.
WARNING : REFRIGERATION UNIT WEIGHS APPROX. 40kg (88 lb.).

(2)Remove refrigeration units in aft cabin underfloor compartment (Ref. Fig. 402).
(a)Disconnect electrical connector (4) and fit blanking caps.
(b)Remove screws (2) and seal (3).
(c)Support air duct (1) to upper structure.
(d)Cut and remove lockwire and remove bolts (7), washers (8), bushes (6) and refrigeration unit (5).
NOTE : Additional bushes (6) may have been installed to align refrigeration unit with air ventilation duct seal and must be recorded, if installed.
WARNING : REFRIGERATION UNIT WEIGHS APPROX. 40kg (88 lb.).

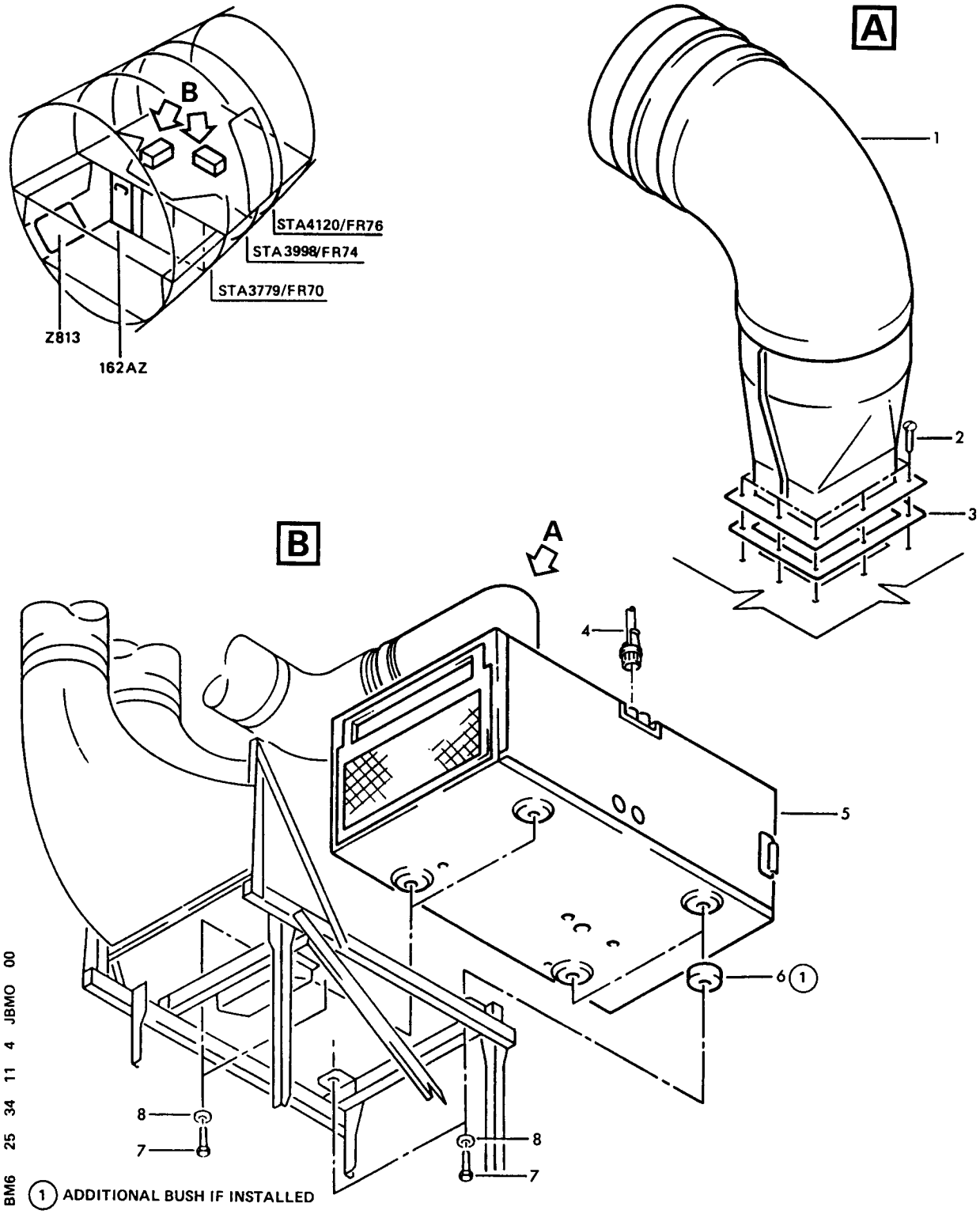
C. Installation
(1)Install refrigeration unit in avionics compartment (Ref. Fig. 401).
(a)Position refrigeration unit (4) in installation position.
NOTE : Take care not to damage air duct seal.
(b)Install bushes (5), washers (2), bolts (1) and safety with lockwire.
(c)Remove blanking caps and connect electrical connector (3).
(2)Install refrigeration unit in aft cabin underfloor compartment (Ref. Fig. 402).
(a)Position refrigeration unit (5) in installation position.
NOTE : Take care not to damage air duct seal.
(b)Install bushes (6), washers (8), bolts (7) and safety with lockwire.
(c)Position duct (1), install seal (3) and screws (2).
(d)Remove blanking caps and connect electrical connector (4).

D. Test
(1)Remove safety clips and tags and close circuit breakers 1XM and 22MC.
(2)Make certain that circuit breakers on each galley circuit breaker panel are closed.
(3)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(4)Make certain that electronics racks ventilation is correct.
(5)Operate refrigerator CYCLE POWER switch on each galley control panel in turn and make certain each refrigeration unit is producing chilled air.

E. Close-Up
(1)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(2)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.
(3)Close access door 132AZ and 162 AZ.
(4)Remove safety lock, close cargo compartment doors (Ref. 52-30-00, P. Block 301) and remove access platform.




Refrigeration Unit in Avionics Compartment
Figure 401




Refrigeration Units in AFT Cabin Underfloor Compartment
Figure 402

1. Operational Test

A. Reason for the Job
Test of the Galley Cooling with the Refrigeration Unit (Air Chiller Unit)

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Electrical Ground Power Unit - 3-Phase, 115/200V, 400Hz |
| Referenced Procedure<br>- 24-41-00, P. Block 301 | AC External Power Control |

C. Procedure
(1)Job Set-Up
(a)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(b)Make sure that electronics racks ventilation is correct.
(c)Make sure that the galley(s) is (are) supplied with electrical power (Ref. 24-56-00, P. Block 501).

NOTE : The steps that follow are only applicable for galley compartments that have an air chiller unit(s) system.

(d)Make sure that the temperature of the air chiller unit(s) is maximum 29.4 deg.C (85 deg.F).
1 If not, use the air conditioning compartment ventilation and the lower deck cargo ventilation, to cool down the compartment(s).

(2)Test

| ACTION | RESULT |
|---|---|
| 1. At the related galley,<br>on the galley control panel:<br>- Set the AIR CHILLER ON/OFF switch(es) to the ON position. | At the related galley,<br>on the galley control panel:<br>- The SYSTEM OPERATE light(s) come(s) on.<br><br>NOTE : Some chillers have an automatic lamp test feature that flashes both run and fault lamps during the initial 30 seconds of chiller operation, that shall not be considered as a fault code.<br><br>At the related galley: |

| ACTION | RESULT |
|---|---|
| | - You can feel an air-flow in the trolley/compartment.<br><br>- After some minutes, the air-flow becomes colder.<br><br>NOTE : Beyond 40 minutes of operation, the air chiller may initiate a DEFROST Cycle, that will last 1 to 5 minutes (the chiller will pause during defrost). |
| 2. At the related galley, on the galley control panel:<br><br>- Set the AIR CHILLER ON/OFF switch(es) to the OFF position. | At the related galley, on the galley control panel:<br><br>- The SYSTEM OPERATE light(s) go(es) off.<br><br>At the related galley:<br>- The air-flow stops. |

(3)Close-Up
(a)Make sure that the working area is clean and clear of tools and miscellaneous items of equipment.
(b)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

R **ON A/C 001-100,

1. General
As standard equipment, the passenger compartment is fitted with five lavatories, one located FORWARD of the LH FWD passenger/crew door and four, combined as a block, located in the compartment's extreme rear. Additional lavatories may be installed in the passenger compartment as optional equipment. Each lavatory is equipped with washroom facilities and supplied with conditioned air, potable water, electricity and vacuum toilet system.

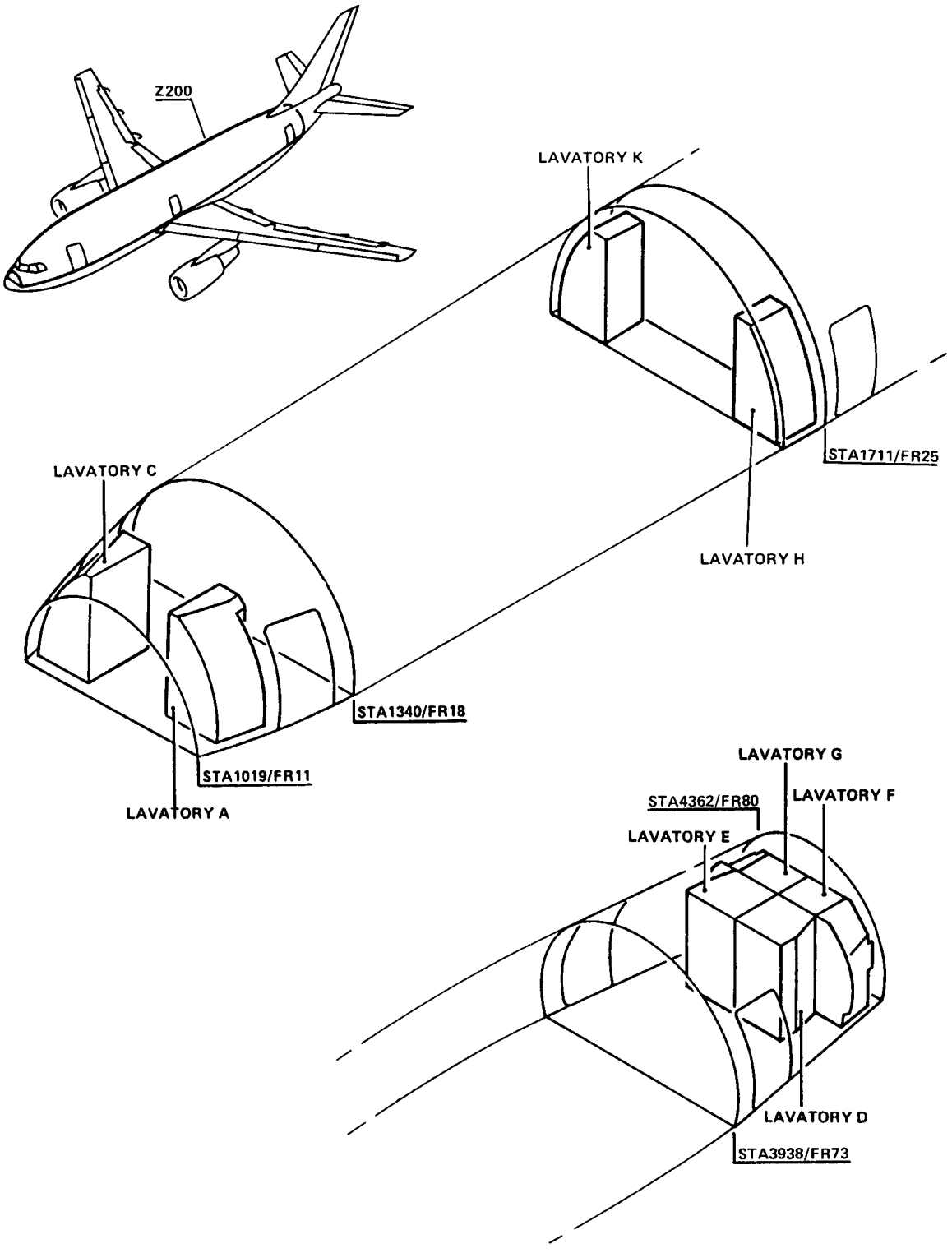
2. Component Location (Ref. Fig. 001)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA. REF. |
|---|---|---|---|---|---|
| | STANDARD LAVATORY: | | | | |
| | LAVATORY A | | 220 | | 25-41-11 |
| | LAVATORIES D, E, F, G | | 260 | | 25-43-11 |
| | OPTIONAL LAVATORY-FWD: | | | | |
| | LAVATORY C | | 220 | | 25-41-31 |
| | OPTIONAL LAVATORIES-MID: | | | | |
| | LAVATORY H | | 240 | | 25-42-21 |
| | LAVATORY K | | 240 | | 25-42-31 |

3. Description

A. Lavatory Structure and Attachments (Ref. Fig. 003, 004)
Lavatories are manufactured in a modular design with ceiling, sidewalls and floor panels assembled as a complete unit. The FWD lavatories (A, C) and the MID lavatories (H, K) are secured to the aircraft structure through use of hard points and tie-rods. The AFT lavatories D, E, F, G are combined as a block and consist of preassembled sections, which are installed to surround two double toilet units. These sections are interconnected by dividing wall panels.

B. General Construction
The lavatory ceilings, sidewalls and floors consist of sandwich panels manufactured from phenolic-resin honeycomb covered by phenolic-resin prepregs. These panels are bolted together to form a rigid unit. The ceiling panel is fitted with a maintenance access door containing an emergency oxygen mask container, an auxiliary light and an air extraction duct. A stowage cabinet is integrated in the exterior face of lavatory A rearwall to provide storage for emergency equipment. Lavatories are equipped with inward-opeing doors, with outward-opening single doors, except lavatories F and G, which are equipped with sliding doors. Each door is of sandwich panel construction with integral air inlet grills in the lower area. As a corrosion-

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Installation Locations and Designation
Figure 001

prevention method, the lavatories are extensively sealed at all sidewall-to-floor joints and in particular the washbasin and toilet unit areas.

C. Connections (Ref. Fig. 002)
Each lavatory is connected to the aircraft electrical, air conditioning, water/waste and vacuum toilet systems. Access to these system interfaces are above the lavatory, via the ceiling-mounted service doors, and through compartments located immediately under the floor.
Upper connections are:
- electrical,
- air distribution and extraction,

Underfloor connections are:
- potable water supply/drain,
- vacuum toilet system,
- toilet unit fill/drain.

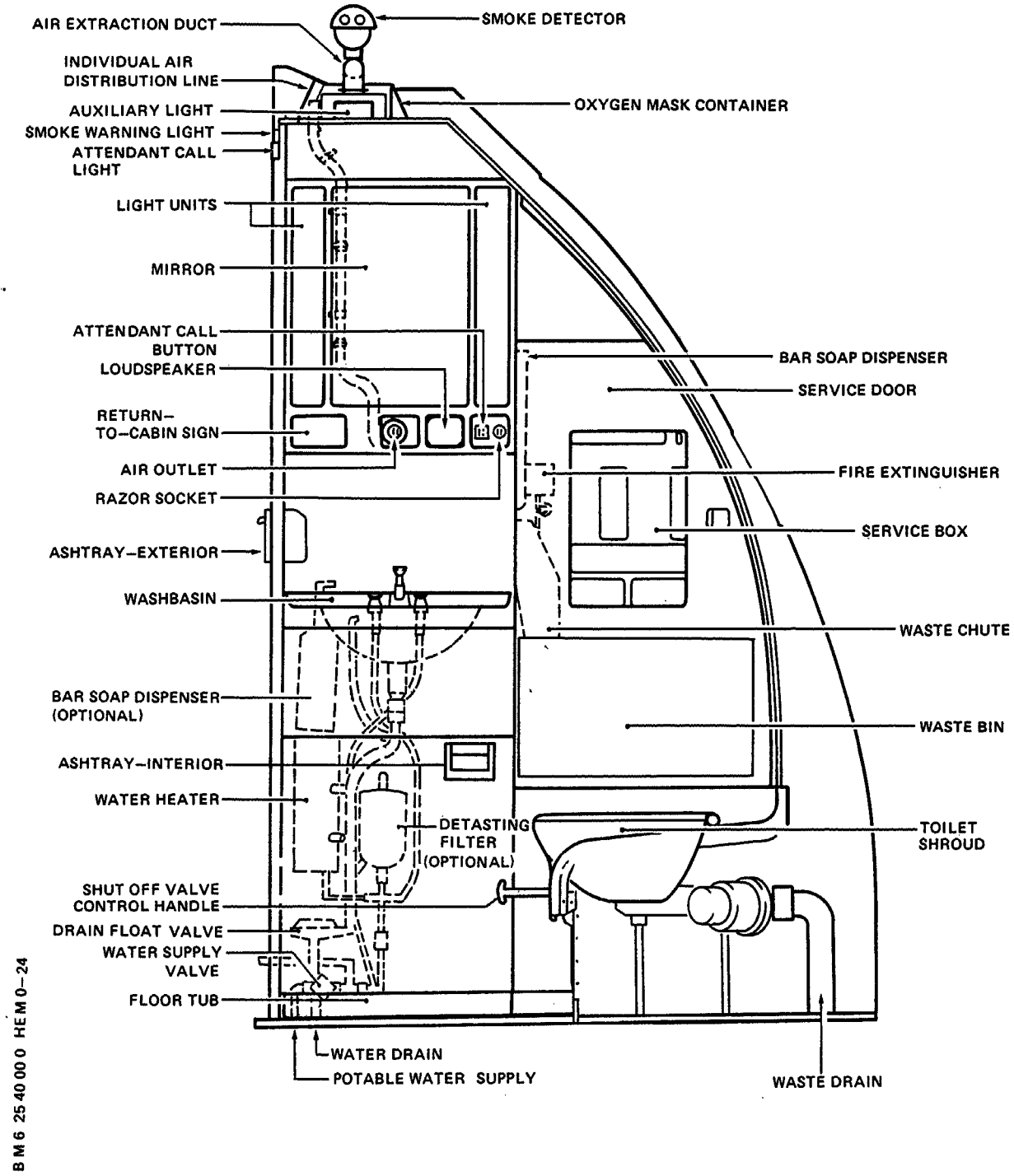
D. Lavatory Equipment (Ref. Fig. 002)
(1)Each lavatory is fitted with the following equipment:
- toilet unit of the vacuum type (Ref. 38-35-00),
- toilet shroud, provides a decorative cover for the toilet unit and includes the seat with cover,
- stainless steel washbasin with hot and cold potable water faucets and drain plug. The cabinet beneath the washbasin contains an ashtray and encloses the water heater, detasting filter (optional), supply valve, drain float valve, shutoff valve control handle and associated hoses,
- vanity unit contains a mirror, light unit cover(s), individual air outlet and openings for the Passenger Service Unit (PSU) components,
- service cabinet encloses the service box containing the basic washroom supplies, a bar soap dispenser, waste chute, and waste bin. An automatically activated fire extinguisher may be installed (Ref. 26-25-00).

(2)Additional items such as folding coat hook, assist handle (except lavatories F and G) and seat cover dispenser are conveniently located within the lavatories. Hinged diaper tables are provided in lavatories F and G. When not in use, the tables are folded and retained by catches on the sidewall above the toilet unit. A handrail for wheelchair users is installed in lavatories F and G.

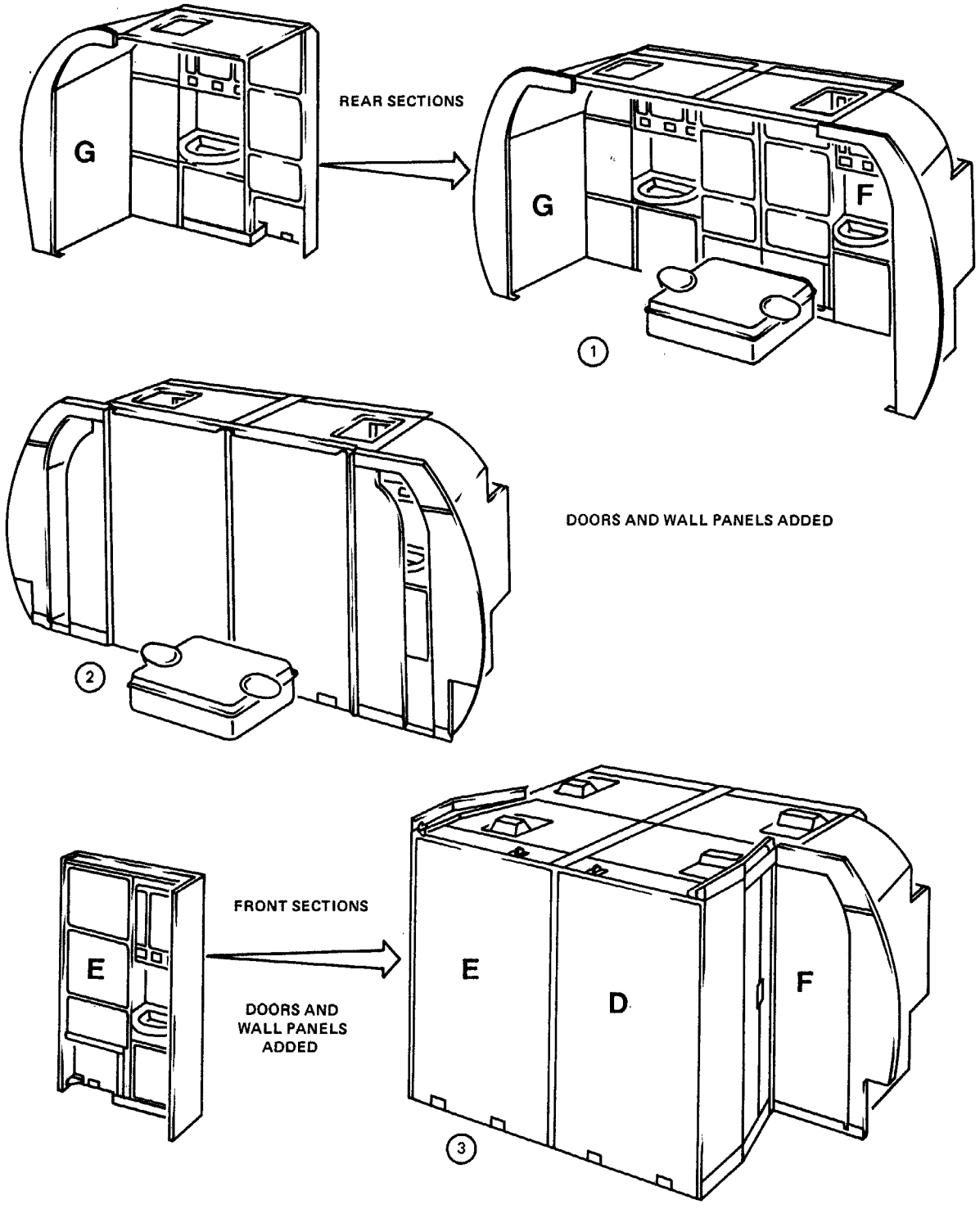
E. Electrical Systems
(1)Power Supply
The lavatories are supplied with electrical power from numerous aircraft electrical systems. The only electrical system exclusive to the lavatories is the MT-Razor sockets system (Ref. 25-44-00).
The circuit breakers for the electrical systems interfacing with the lavatories are located as follows:
- Flight Compartment - 22VU, 131VU and 132VU CB panels.
- Passenger Compartment - 800VU and 811VU CB panels.

Two separate wiring harnesses, one supplying the unit ceiling-mounted equipment and the other supplying the unit sidewall-mounted equipment, connect each lavatory unit to the aircraft electrical systems.

(2)Electrical Systems (Ref. Fig. 005)




Typical Equipment Layout and System Connections
Figure 002

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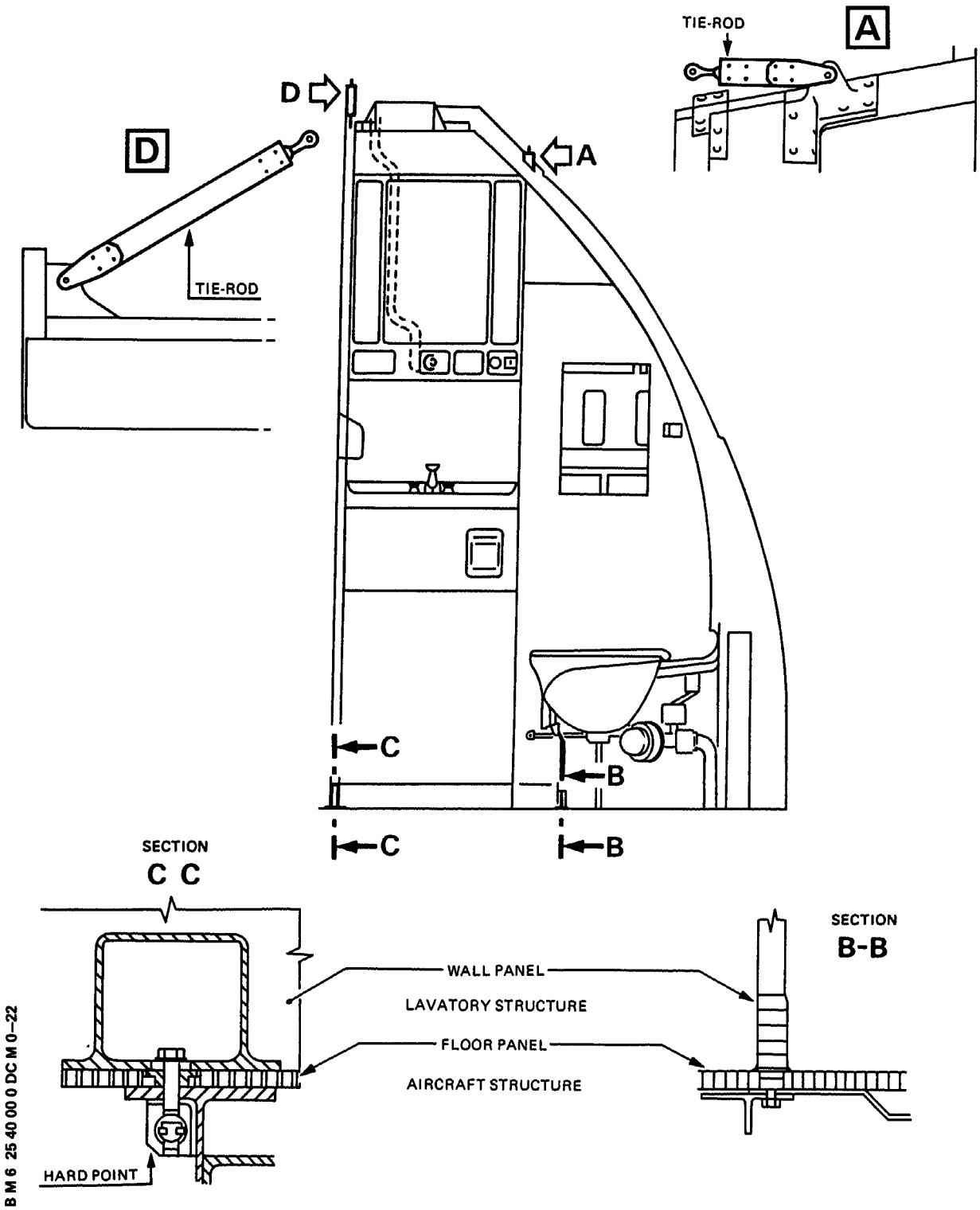
Aft Lavatory Block Assembly
Figure 003




Lavatory Structure and Attachments
Figure 004

(a)Lavatory Lighting - LQ (Ref. 33-24-00)
- Lavatories A, C, H, K, D and E are equipped with a two-level lighting system (50% and 100%) provided by fluorescent light and adjustable ballast unit installed on the lavatory wall (Lavatory A) or lavatory ceiling. The two-level lighting is controlled by the door locking mechanism activating the OCCUPIED sign microswitch. This switch, in conjunction with a relay, supplies 28 V DC either to the ballast unit to reduce power output to the light when the door is unlocked or to the lavatory OCCUPIED sign when the door is locked. Lavatories F and G are for handicapped persons and are provided with a fluorescent light and ballast unit installed behind the mirror. The lavatory light has 100% intensity only. When the door is unlocked, the light remains on with 100% intensity.

(b)Lavatory Auxiliary Light - WL (Ref. 33-51-21)
A 28 V DC auxiliary light is installed in each lavatory unit ceiling. This light is on at all times when the aircraft is supplied with electrical power.

(c)Passenger Lighted Signs - WJ (Ref. 33-26-00)
Two passenger lighted sign sub-systems are installed in each lavatory. One sub-system provides the lavatory occupant with information by illumination of the RETURN TO SEAT sign located in the PSU. This sign is activated by the SEAT BELTS switch on the FLT COMPT overhead panel. The other lighted sign sub-system informs passengers and crew members of the lavatory being OCCUPIED and is activated by closing and locking the doors.

(d)Passenger Address System - RY (Ref. 23-31-00)
A loudspeaker and transformer are installed in each lavatory to provide the occupant with audio information from the passenger address system.

(e)Call System - LN (Ref. 33-23-00)
An attendant (ATTN) call button is installed in each lavatory to provide the occupant with a means to summon assistance.
Pressing the ATTN call button, located in the PSU, results in the following:
- illumination of the call button integral light,
- amber segment illumination on respective master call indicator,
- an audio Hi-tone signal at the passenger compartment and attendant loudspeakers,
- illumination of the lavatory-mounted attendant call light.

Pressing the ATTN call button a second time will cancel the call signal.

(f)Razor Sockets - MT (Ref. 25-44-00)
Each lavatory is equipped with a 110 V AC, 60 HZ, single-phase, combined European/US type outlet for electrical razor use.

(g)Water Heater - MB (Ref. 38-12-00).
A water heater is installed under the washbasin in each lavatory. Each heater is equipped with an ON-OFF switch, indicator lamp and a reservoir having a capacity of 1.5 l (0.4 US gal.). The following precautions are designed to protect each heater:
- the water heater electrical power is automatically cut off, if the aircraft water system level drops below a preset level.
- an internal thermostat regulates the water temperature within the

range of 44° to 49°C (111° to 120°F).
- a safety switch deactivates the heater circuit when a water temperature of 60°C ± 5°C (140°F ± 8°F) has been reached.

(h)Waste Disposal - MG (Ref. 38-30-00)
A flush switch is installed in each lavatory. The flush switch is located on the lavatory rear wall which activates the flush cycle.

(j)Passenger Oxygen System - WR (Ref. 35-21-00)
An oxygen generating unit and mask are installed in a container in each lavatory ceiling or rearwall (Lavatory A) to provide the occupant with emergency oxygen should the system be activated. For system test purposes, a rotatable door stop is installed on the container to prevent the door opening completely. A manual release tool, available at attendant stations, is used to manually open and close the container door.

(k)Fluid Level Transmitter - MV (Ref. 38-33-00)
A fluid level transmitter is mounted on each waste tank to sense the amount of liquid within the tank and transmit a signal to illuminate an indicator light located on the appropriate toilet service panel (OPTIONAL).

(l)Flight Compartment Door Lock - MQ (Ref. 52-51-00)
At Lavatory A only, an auxiliary electrical release latch is installed in the door post extension of the lavatory frontwall. Momentary release of the latch, by pressing the COCKPIT DOOR switch, allows the flight compartment door to be opened manually (OPTIONAL).

(m)Lavatory Smoke Detection - WQ (Ref. 26-17-00)
The smoke detection system comprises an electronic smoke detection box and smoke detectors located on each lavatory air extraction duct. Each smoke detector is associated with local warning and indicator lights indicating the lavatory which is monitored and SMOKE warning light on master warning panel and lavatory wall.

4. Emergency Access Procedure

A. Bifolding Doors (Ref. Fig. 006)

(1)Emergency Opening

CAUTION : THE FOLLOWING SEQUENCE MUST BE FOLLOWED TO AVOID DAMAGING THE DOOR MECHANISM.

(a)Insert suitable tool (screwdriver, coin) into emergency slot of lavatory OCCUPIED sign and slide horizontally to obtain a VACANT indication.

(b)Bifolding door can be opened inwards.

B. Single Doors (Ref. Fig. 007)

(1)Access from outside in an emergency case (with old latch).

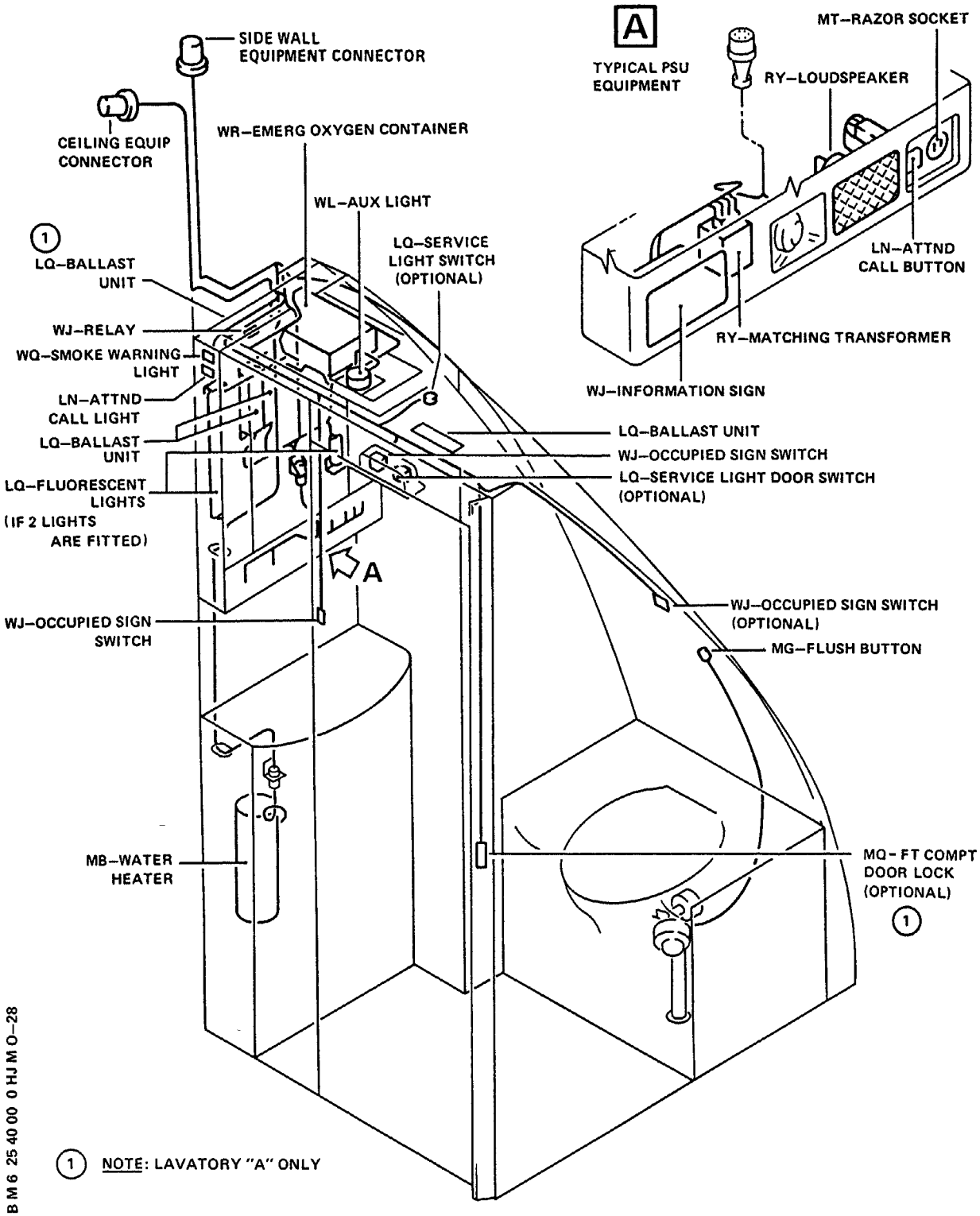
(a)Insert suitable tool (screwdriver, coin) into emergency slot of lavatory OCCUPIED sign and press downwards to obtain a VACANT indication.

(b)Turn knob and open door outwards.

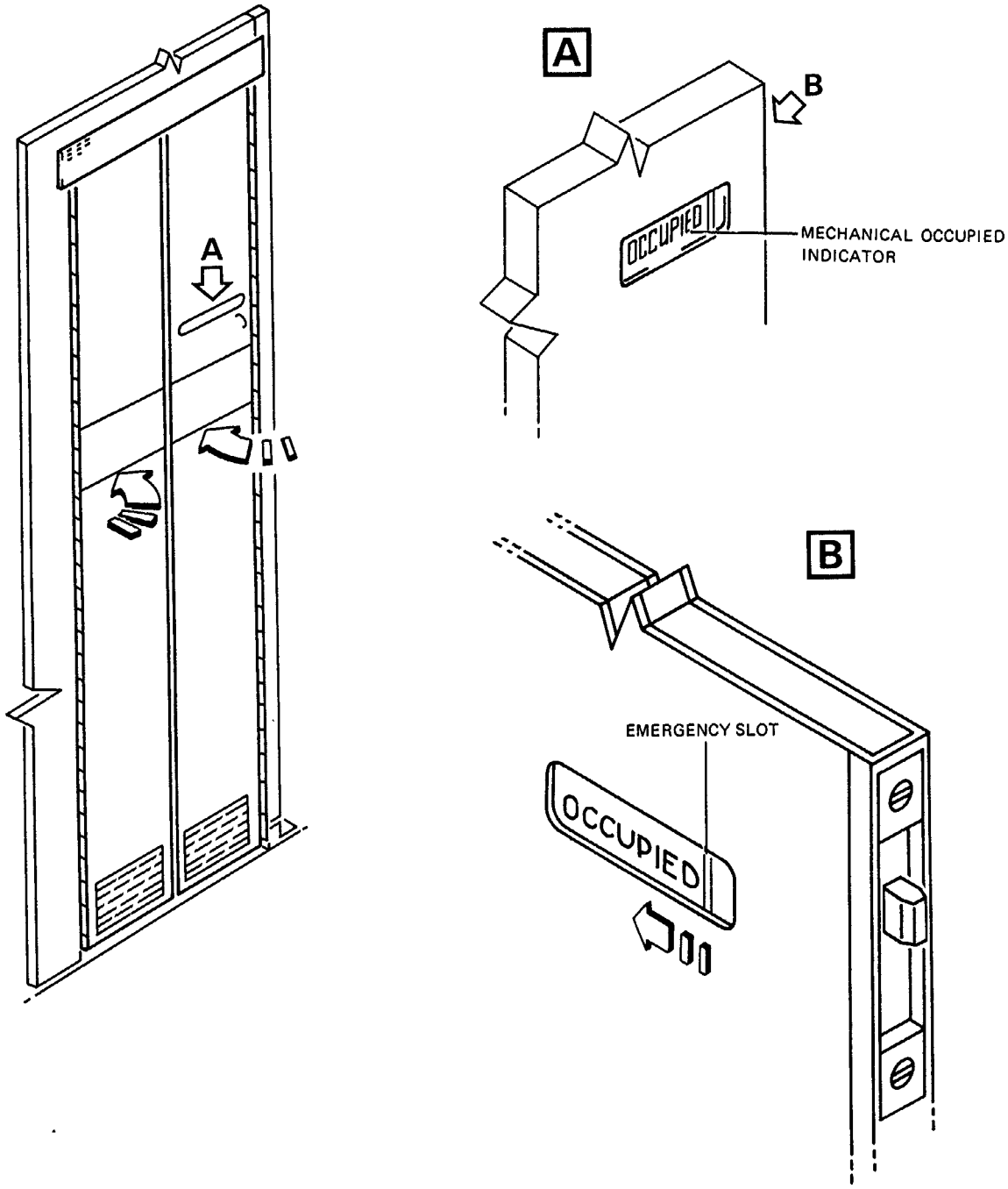
(2)Access from outside in an emergency case (with new latch).

(a)Lift the LAVATORY sign on the outer face of the lavatory door and move the latch until the indicator shows VACANT.

(b)Turn knob and open door outwards.




Typical Electrical Equipment
Figure 005

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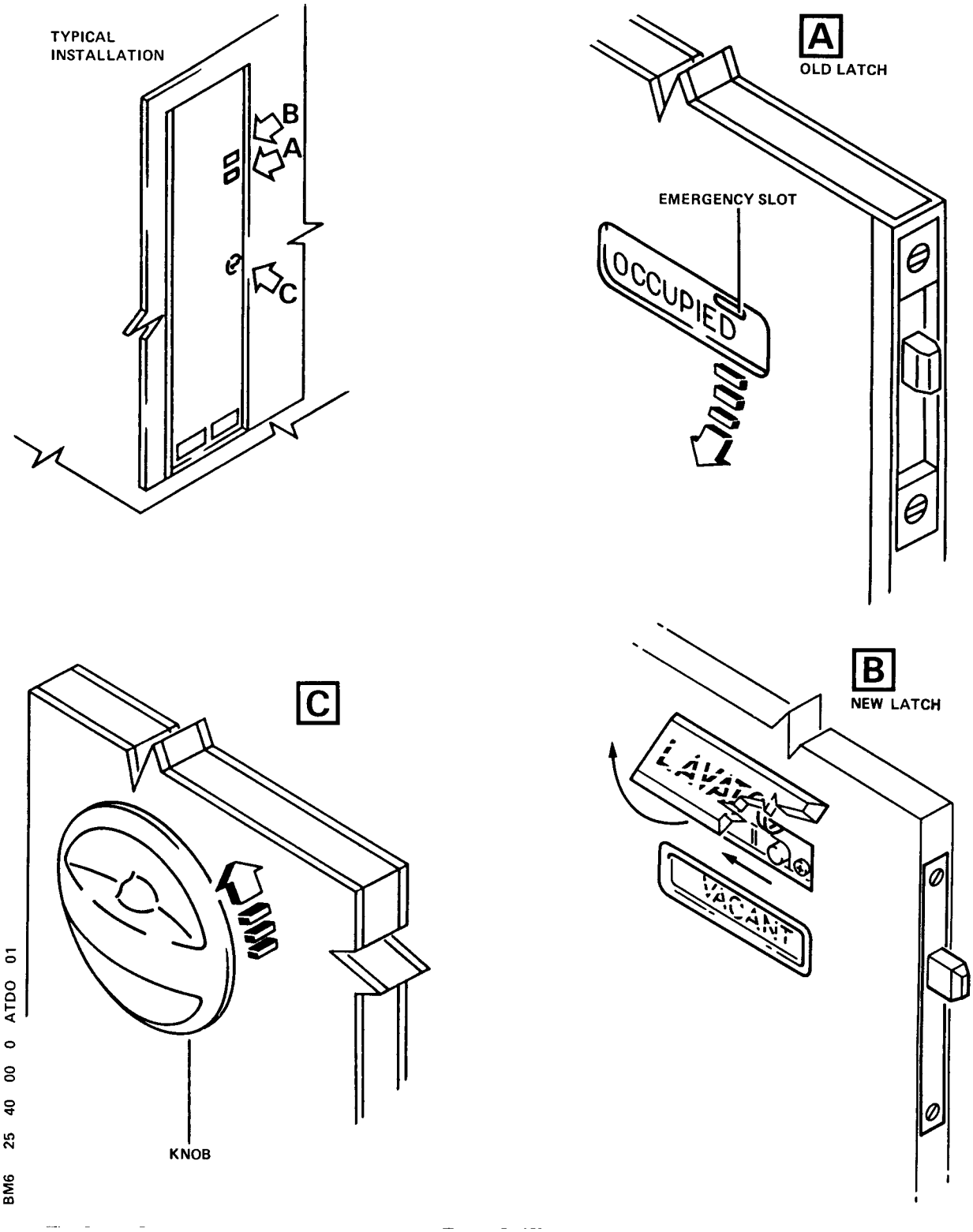
Emergency Opening Procedure
- Bifolding Doors -
Figure 006




Emergency Opening - Single Doors
Figure 007

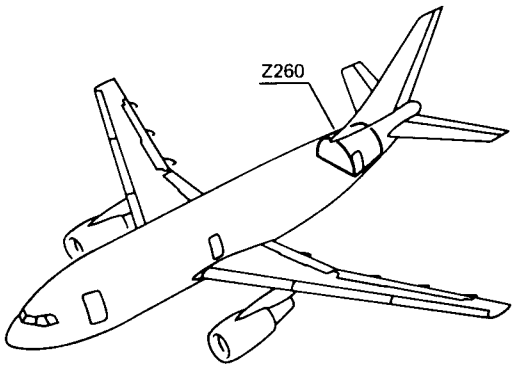
C. Sliding Doors (Ref. Fig. 008)
(1)Lavatory F - Emergency Opening
(a)Insert suitable tool (screwdriver, coin) in slot of door and rotate ccw to unlock door. Indicator must now indicate **VACANT**.
(b)Slide door open.
(2)Lavatory G - Emergency Opening
(a)Insert suitable tool (screwdriver, coin) in slot of door and rotate clockwise to unlock door. Indicator must now indicate **VACANT**.
(b)Slide door open.

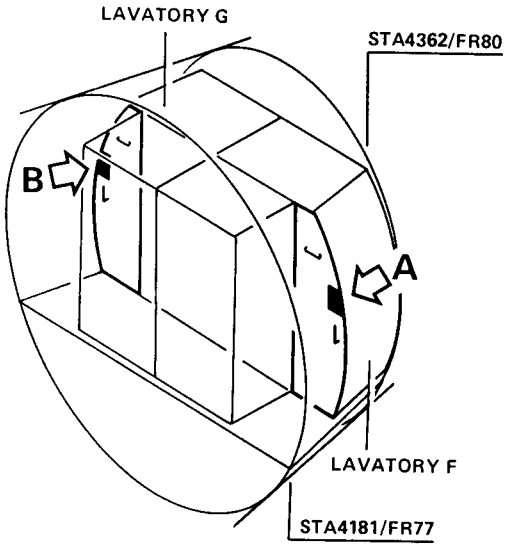
**ON A/C 101-200,

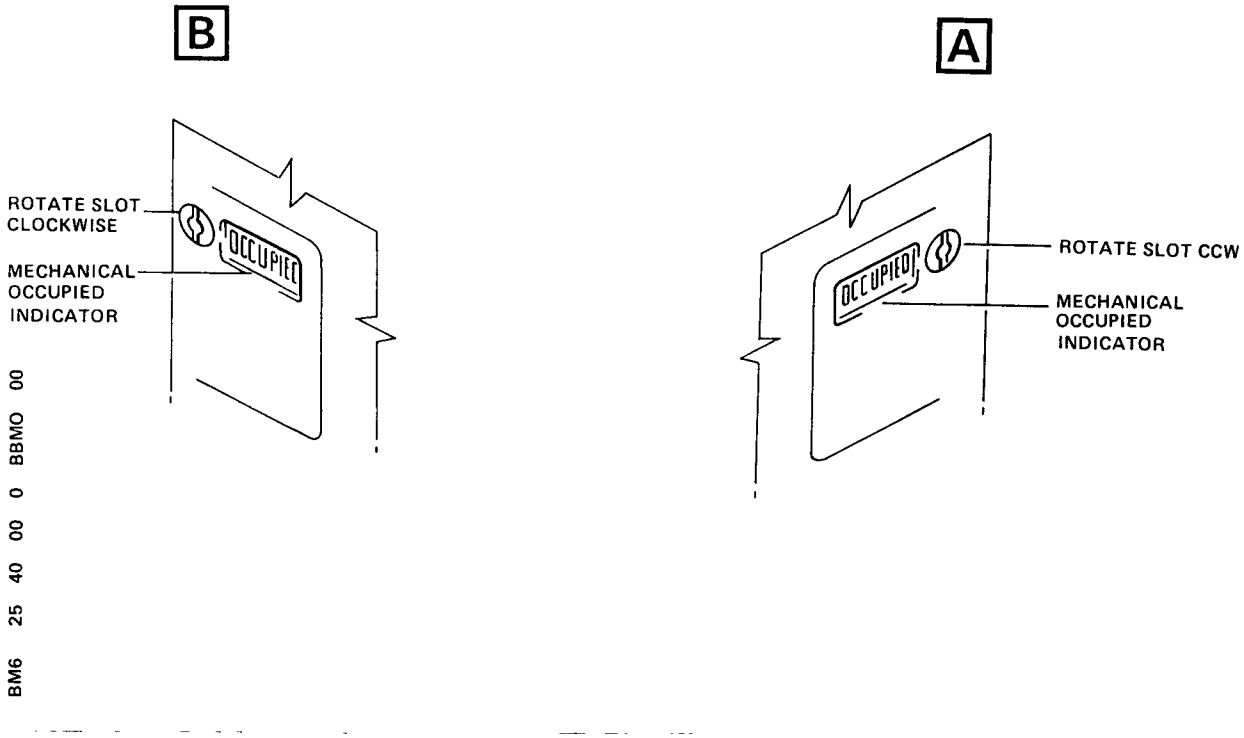
1. General
As standard equipment, the passenger compartment is fitted with one lavatory located **FORWARD** of the **LH FWD** passenger/crew door. Additional lavatories may be installed in the **MID** and **AFT** passenger compartment as optional equipment. Each lavatory is equipped with washroom facilities and smoke detectors and supplied with conditioned air, potable water, electricity and vacuum toilet system.

2. Component Location (Ref. Fig. 009)

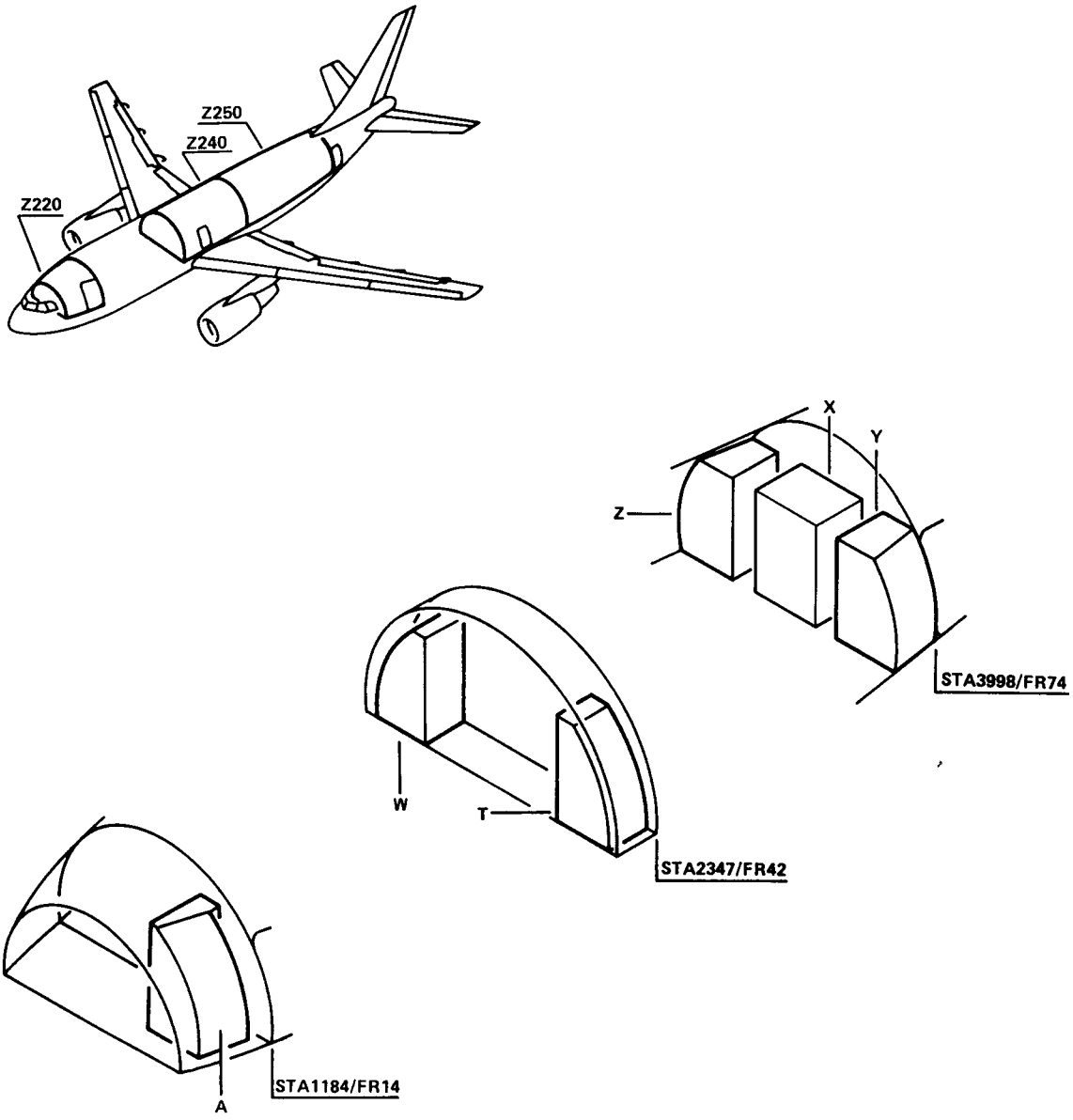
| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA. REF. |
|---|---|---|---|---|---|
| | STANDARD LAVATORY: | | | | |
| | LAVATORY A | | 220 | | 25-41-11 |
| | OPTIONAL LAVATORIES-MID: | | | | |
| | LAVATORY T | | 240 | | 25-42-71 |
| | LAVATORY W | | 240 | | 25-42-61 |
| | OPTIONAL LAVATORIES-AFT: | | | | |
| | LAVATORY X | | 250 | | 25-43-41 |
| | LAVATORY Y | | 250 | | 25-43-51 |
| | LAVATORY Z | | 250 | | 25-43-61 |




Sliding Doors - Emergency Access
Figure 008

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R

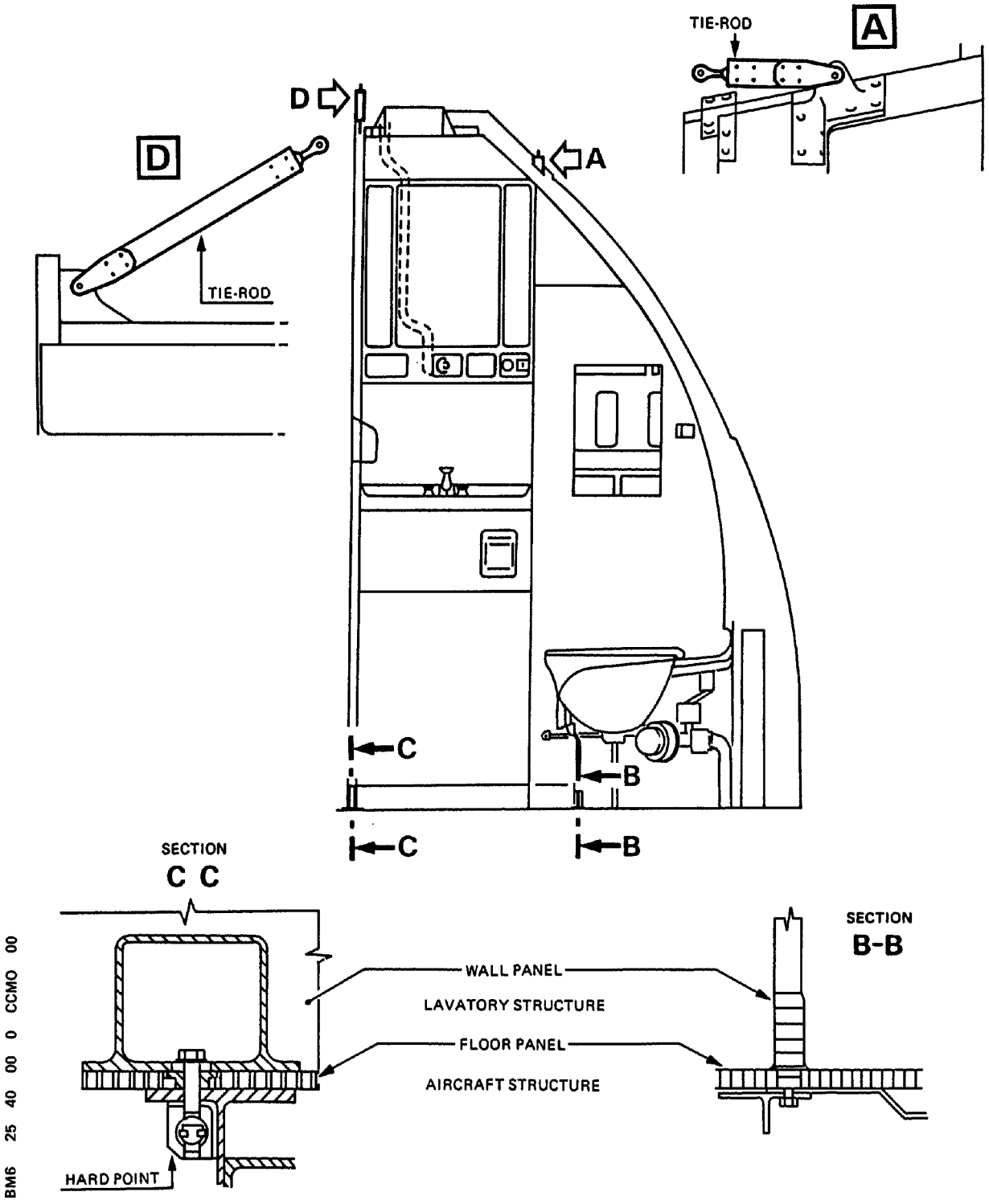
Component Location
Figure 009

R 3. Description

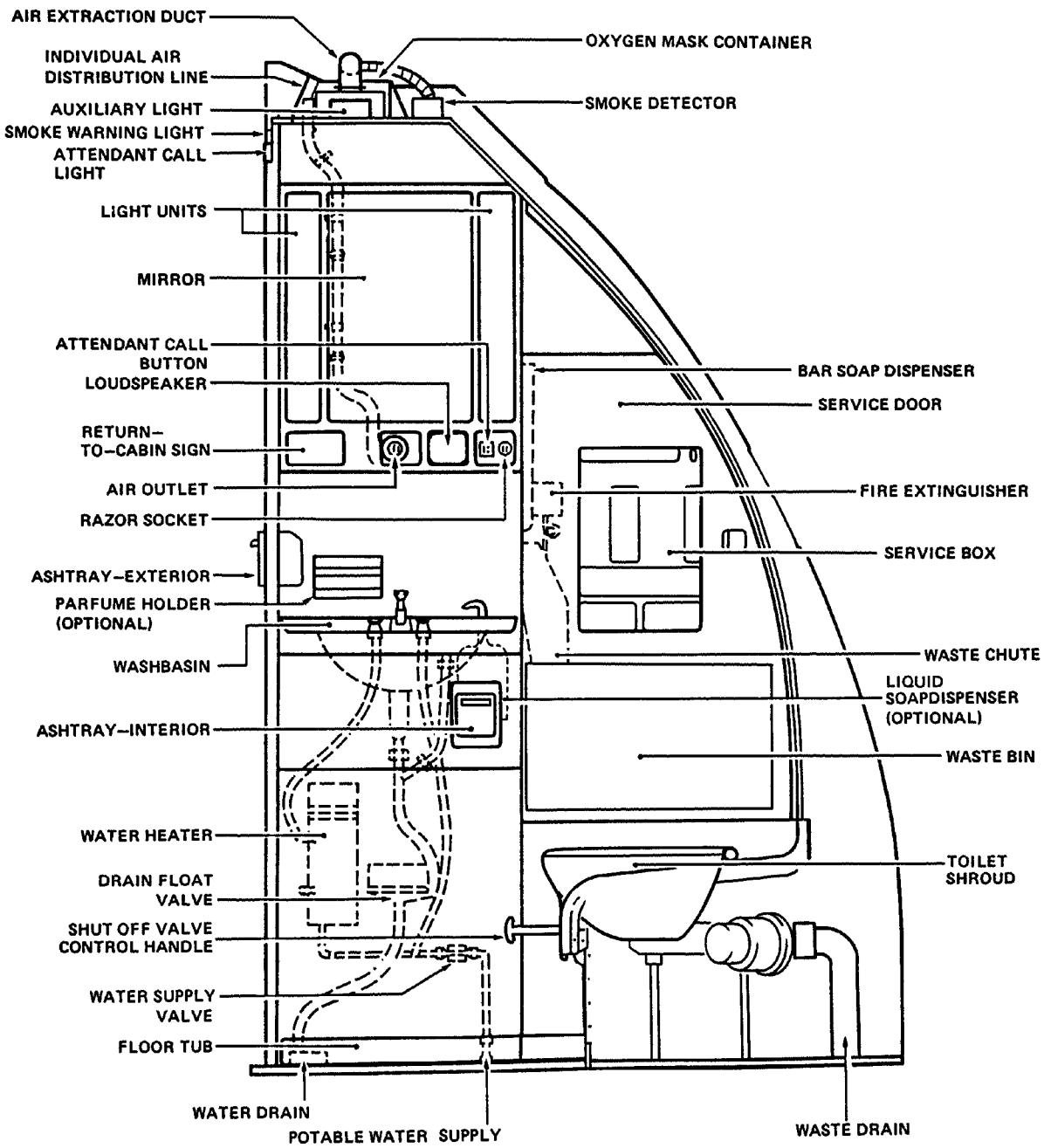
R A. Lavatory Structure and Attachments (Ref. Fig. 010)
R The lavatories are manufactured in a modular design with ceiling, side-
R wall and floor panels assembled as a complete unit.
R The FORWARD lavatory A, the MID lavatories T, W and the AFT
R lavatories X, Y and Z are secured to the aircraft structure using
R hard points and tie-rods.

R B. General Construction
R The lavatory ceilings, sidewalls and floors consist of sandwich panels man-
R ufactured from phenolic-resin honeycomb covered by phenolic-resin prepregs.
R These panels are bolted together to form a rigid unit. The ceiling panel is
R fitted with a maintenance access door containing an emergency oxygen mask
R container, an auxiliary light and an air extraction duct. A stowage
R cabinet is integrated in the exterior face of lavatory A rear wall to pro-
R vide storage for emergency equipment. Provisions are made for the attach-
R ment of baby bassinets to the AFT walls of lavatories T, W and X.
R Lavatories T and W are equipped with inward-opening bifolding doors.
R Lavatories A, X, Y and Z are equipped with outward-opening single
R doors. Each door is of sandwich panel construction with integrated air
R inlet grills in the lower area. As a corrosion-prevention precaution, the
R lavatories are extensively sealed at all sidewall-to-floor joints and in
R particular the washbasin and toilet unit areas.

R C. Connections (Ref. Fig. 011)
R Each lavatory is connected to the aircraft electrical, air conditioning,
R water/waste and vacuum toilet systems. Access to these system interfaces
R are above the lavatory, via the ceiling mounted service doors, and through
R compartments located immediately under the floor.
R Upper connections are:
R - electrical,
R - air distribution and extraction.
R Underfloor connections are:
R - potable water supply/drain,
R - vacuum toilet system,




Lavatory Structure and Attachments
Figure 010

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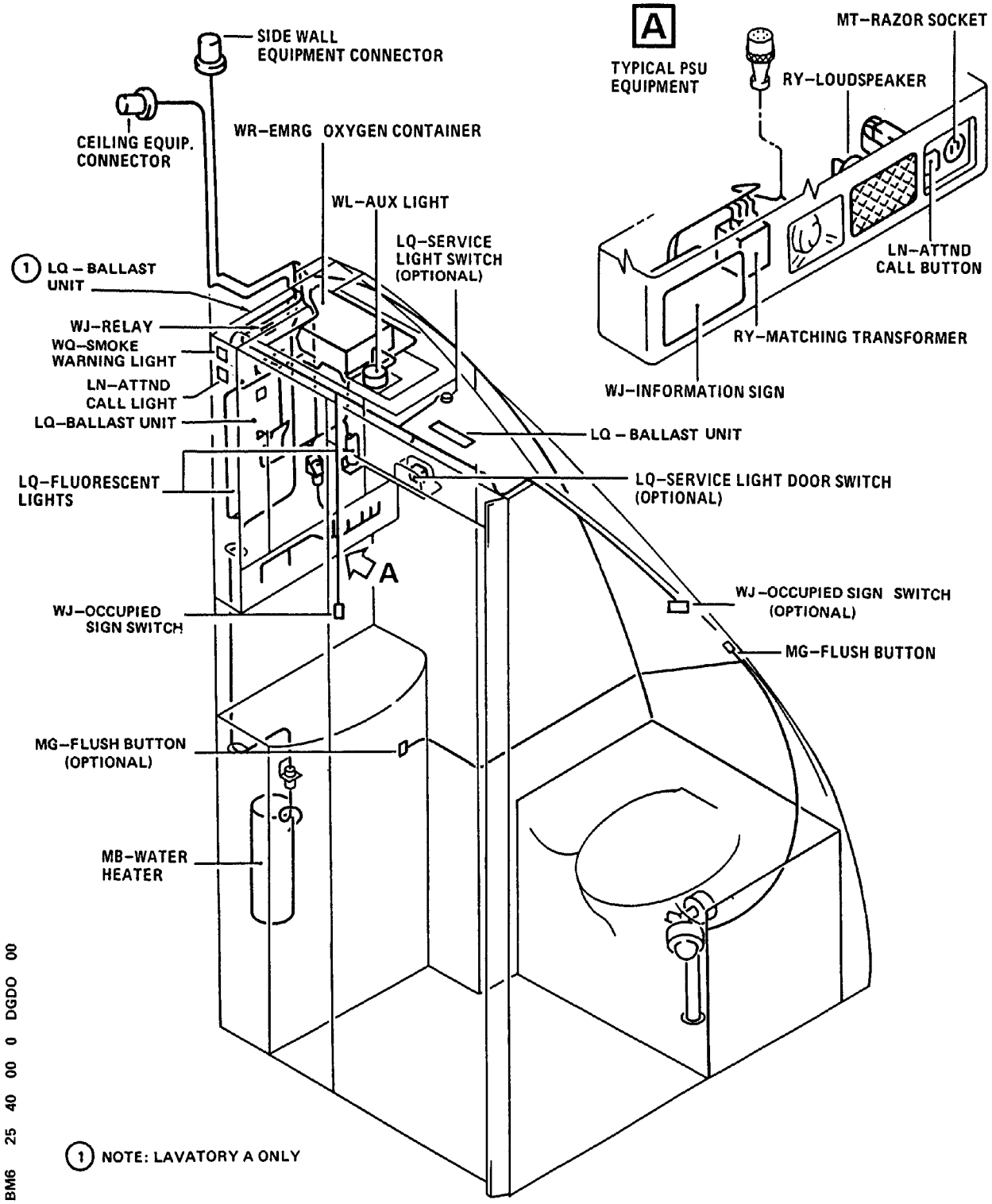
Typical Equipment Layout and System Connections
Figure 011

R D. Lavatory Equipment (Ref. Fig. 011)
R (1)Each lavatory is fitted with the following equipment:
R - toilet unit of the vacuum type (Ref. 38-35-00),
R - toilet shroud, provides a decorative cover for the toilet unit and includes the seat with cover,
R - stainless steel washbasin with hot and cold potable water faucets and drain plug. The cabinet beneath the washbasin contains an ashtray and encloses the water heater, supply valve, drain float valve, shutoff valve control handle and associated hoses,
R - vanity unit contains a mirror, light unit cover(s), individual air outlet and openings for the Passenger Service Unit (PSU) components,
R - service cabinet encloses the service box containing the basic washroom supplies, a bar soap dispenser, waste chute, perfume holder and waste bin. An automatically activated fire extinguisher may be installed (Ref. 26-25-00).
R (2)Additional items such as folding coat hook, assist handle and seat cover dispenser are conveniently located within the lavatories. Hinged diaper tables are provided in lavatories T, W and X. When not in use, the tables are folded and retained by catches on the sidewall above the toilet unit. A handgrip for wheel chair users is installed in lavatory X.

R E. Electrical Systems
R (1)Power Supply
R The lavatories are supplied with electrical power from numerous aircraft electrical systems. The only electrical system exclusive to the lavatories is the MT-Razor sockets system (Ref. 25-44-00).
R The circuit breakers for the electrical systems interfacing with the lavatories are located as follows:
R - Flight Compartment - 22VU, 131VU and 132VU CB panels
R - Passenger Compartment - 800VU and 811VU CB panels.
R Two separate wiring harnesses, one supplying the unit's ceiling mounted equipment and the other supplying the unit's sidewall mounted equipment, connect each lavatory unit to the aircraft electrical systems.
R (2)Electrical Systems (Ref. Fig. 012)
R (a)Lavatory Lighting - LQ (Ref. 33-24-00)
R Each lavatory is equipped with a two-level lighting system provided by fluorescent light(s) and adjustable ballast unit(s).
R The two-level lighting is controlled by the door locking mechanism activating the OCCUPIED sign microswitch. This switch, in conjunction with a relay, supplies 28 V DC either to the ballast unit(s) to reduce power output to the light(s) when the door(s) is (are) unlocked or to the lavatory OCCUPIED signs when the door(s) is (are) locked.
R Lavatory X is for handicapped persons and is provided with a fluorescent light and ballast unit installed behind the mirror. The lavatory light has 100% intensity only. When the door is unlocked, the light remains on with 100% intensity.
R For lavatory servicing purposes, a pushbutton switch is installed in each lavatory ceiling that, when pushed on, will provide ballast units with 100% power. The lights will automatically revert to 50% intensity when the doors are closed, as sensed by a microswitch (OPTIONAL).

R (b)Lavatory Auxiliary Light - WL (Ref. 33-51-21)
R A 28 V DC auxiliary light is installed in each lavatory ceiling unit.
R This light is on at all times when the aircraft is supplied with electrical power.
R (c)Passenger Lighted Signs - WJ (Ref. 33-26-00)
R Two passenger lighted sign sub-systems are installed in each lavatory.
R One sub-system provides the lavatory occupant with information by illumination of the RETURN TO SEAT sign located in the PSU. This sign
R is activated by the SEAT BELTS switch on the FLT COMPT overhead panel.
R The other lighted sign sub-system informs the passengers and crew members of the lavatory being OCCUPIED and is activated by closing and
R locking the doors.
R (d)Passenger Address System - RY (Ref. 23-31-00)
R A loudspeaker and transformer are installed in each lavatory to provide the occupant with audio information from the passenger address
R system.
R (e)Call System - LN (Ref. 33-23-00)
R An attendant (ATTN) call button is installed in each lavatory to provide the occupant with a means to summon assistance.
R Pressing the ATTN call button, located in the PSU, results in the following:
R - illumination of the call button integral light,
R - amber segment illumination on respective master call indicator,
R - an audio Hi-tone signal at the passenger compartment and attendant loudspeakers,
R - illumination of the lavatory-mounted attendant call light.
R Pressing the ATTN call button a second time will cancel the call
R signal.
R (f)Razor Sockets - MT (Ref. 25-44-00)
R Each lavatory is equipped with a 110 V AC, 60 Hz, single-phase, combined European/US type outlet for electrical razor use.
(g)Water Heater - MB (Ref. 38-12-00)
A water heater is installed under the washbasin in each lavatory. Each heater is equipped with an ON-OFF switch, indicator lamp and a reservoir having a capacity of 1.5 l (0.4 US gal.). The following precautions are designed to protect each heater:
- the water heater electrical power is automatically cut off, if the aircraft water system level drops below a preset level.
- an internal thermostat regulates the water temperature within the range of 44 ° to 49 °C (111 ° to 120 °F).
- a safety switch deactivates the heater circuit when a water temperature of 60 °C ±5 °C (140 °F ±8 °F) has been reached.




Typical Electrical Equipment
Figure 012

(h)Waste Disposal - MG (Ref. 38-30-00)
A flush switch is installed in each lavatory. The flush switch located on the lavatory rear wall, and under the wash basin for handicapped persons, activates the flush cycle.

(j)Passenger Oxygen System - WR (Ref. 35-21-00)
An oxygen generating unit and mask are installed in a container in each lavatory ceiling or rear wall (Lavatory A) to provide the occupant with emergency oxygen should the system be activated. For system test purposes, a rotatable door stop is installed on the container to prevent the door opening completely. A manual release tool, available at attendant stations, is used to manually open and close the container door.

(k)Fluid Level Transmitter - MV (Ref. 38-33-00)
A fluid level transmitter is mounted on each waste tank to sense the amount of liquid within the tank and transmit a signal to illuminate an indicator light located on the appropriate toilet service panel (OPTIONAL).

(l)Lavatory Smoke Detection - WQ (Ref. 26-17-00)
The smoke detection system comprises an electronic smoke detection box and smoke detectors located on each lavatory air extraction duct. Each smoke detector is associated with local warning and indicator lights indicating the lavatory which is monitored and SMOKE warning light on master warning panel and lavatory wall.

4. Emergency Access Procedure

A. Bifolding Doors (Ref. Fig. 013)

(1)Emergency Opening

CAUTION : THE FOLLOWING SEQUENCE MUST BE FOLLOWED TO AVOID DAMAGING THE DOOR MECHANISM.

(a)Insert suitable tool (screwdriver, coin) into emergency slot of lavatory OCCUPIED sign and slide horizontally to obtain a VACANT indication.

(b)Bifolding door can be opened inwards.

B. Single Door - Emergency Opening (Ref. Fig. 007)

R (1)Access from outside in an emergency case (with old latch).

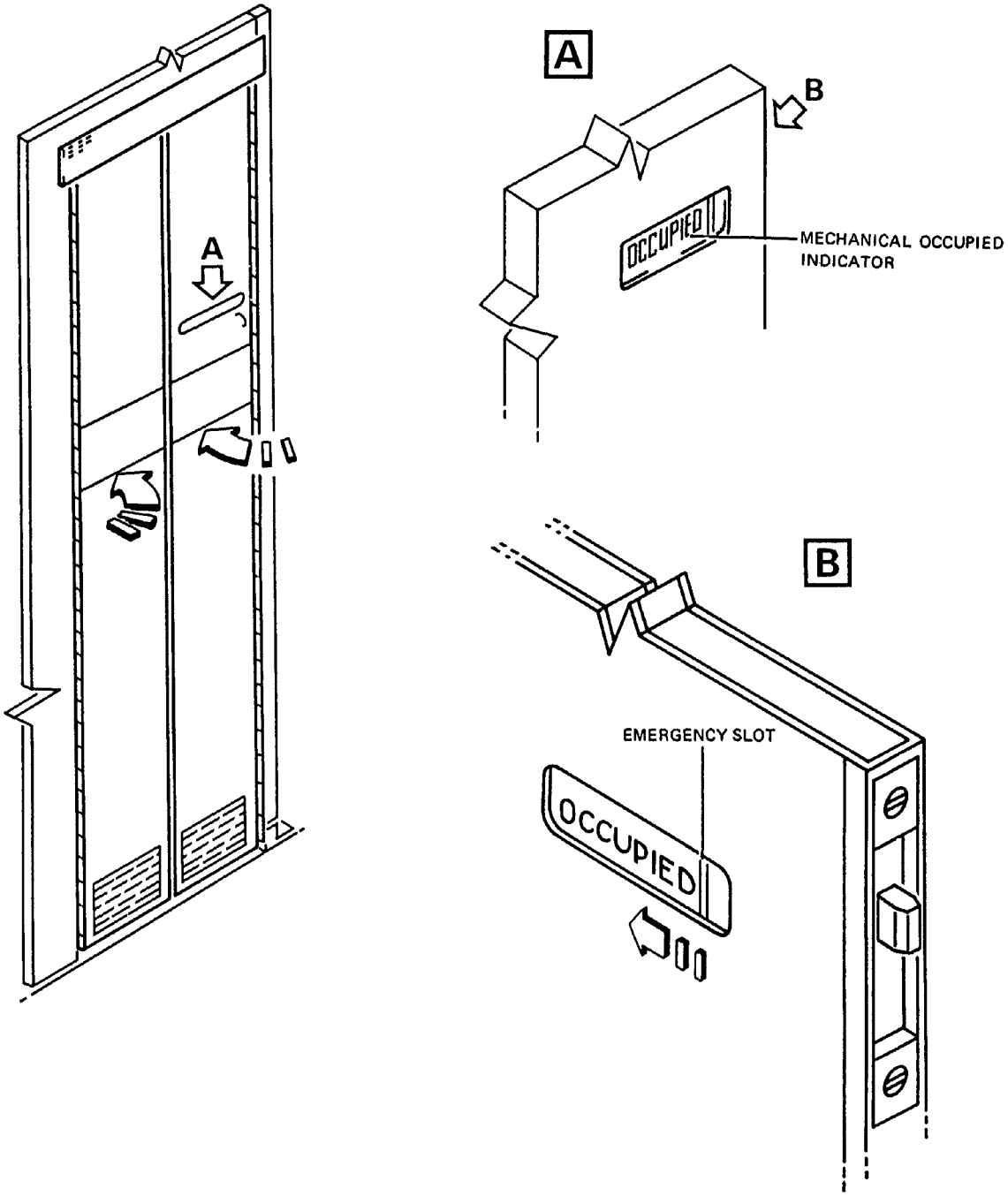
(a)Insert suitable tool (screwdriver, coin) into emergency slot of lavatory OCCUPIED sign and move sign downwards to obtain a VACANT indication.

(b)Turn knob and open door.

R (2)Access from outside in an emergency case (with new latch).

R (a)Lift the LAVATORY sign on the outer face of the lavatory door and move
R the latch until the indicator shows VACANT.

R (b)Turn knob and open door outwards.

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Emergency Opening Procedure
- Bifolding Doors -
Figure 013

1. Operational Test

WARNING : BEFORE POWER IS SUPPLIED TO THE AIRCRAFT, MAKE CERTAIN THAT ELECTRICAL CIRCUITS UPON WHICH WORK IS IN PROGRESS ARE ISOLATED.
CAUTION : SWITCH 14WR MUST NOT BE HELD IN MAN OVRD POSITION FOR MORE THAN 5 SEC.

A. Reason for the Job
(1)To test operation of following lavatory systems:
- Lighting
- OCCUPIED signs
- Call system
- Passenger address system
- Water heaters
- Passenger oxygen system
- Smoke Detector

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1)995000 | Tool - Manual Release |
| (2) | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| (3) | Snapwire |

Referenced Procedures

| | |
|---|---|
| - 21-21-00, P. Block 501 | Flight Compartment and Electronic Racks Air Distribution |
| - 21-31-00, P. Block 501 | Cabin Pressure Control and Monitoring |
| - 23-31-00, P. Block 501 | Passenger Address System |
| - 24-41-00, P. Block 301 | AC External Power Control |

C. Job Set-Up
(1)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that the flight compartment and electronics racks air distribution system is operating (Ref. 21-21-00, P. Block 501).
(3)Activate passenger address system (Ref. 23-31-00, P. Block 501).
(4)Activate cabin pressure control and monitoring (Ref. 21-31-00, P. Block 501).

R **ON A/C 001-100,

(5)Make certain that the following circuit breakers are closed:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COM/PASSENGER ADDRESS | 5RY | B15 |
| 22VU | EMER LT/TOILETS | 1WL | E26 |
| 22VU | PASSENGER OXYGEN CTL & WARN | 1WR | H24 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | PASSENGER OXYGEN ACTUATION | 2WR | H25 |
| 22VU | PASSENGER OXYGEN ACTUATION | 3WR | H26 |
| 22VU | PASSENGER OXYGEN ACTUATION | 4WR | H27 |
| 22VU | PASSENGER OXYGEN ACTUATION | 5WR | H28 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING - PASSENGER SIGNS - SEAT BELTS/RETURN | 28WJ | P83 |
| 132VU | LIGHTING - PASSENGER SIGNS - SEAT BELTS/RETURN | 29WJ | P82 |
| 800VU | CALL-SYSTEM/TEST | 3LN | E10 |
| 800VU | CALL-SYSTEM/TEST | 5LN | E11 |
| 800VU | CALL-SYSTEM/LAVATORY | 4LN | E12 |
| 800VU | LAVATORY FRONT & MIDDLE/LIGHT | 1LQ | G 2 |
| 800VU | LAVATORY FRONT & MIDDLE/HOT WATER | 1MB | G 7 |
| 800VU | LAVATORY FRONT & MIDDLE/HOT WATER | 23MB | G 8 |
| 800VU | FLUSH MOTORS/FRONT/A | 4MG | J 2 |
| 800VU | FLUSH MOTORS/MIDDLE/H | 29MG | J 9 |
| 800VU | FLUSH-MOTORS/MIDDLE/K | 30MG | J12 |
| 800VU | LAVATORY FRONT & MIDDLE/OCCUPIED | 1WJ | G 4 |
| 811VU | LAVATORY REAR/HOT-WATER | 11MB | B 4 |
| 811VU | LAVATORY REAR/HOT-WATER | 13MB | B 5 |
| 811VU | FLUSH MOTORS/RH E | 14MG | C 5 |
| 811VU | FLUSH MOTORS/LH D | 15MG | C 8 |
| 811VU | FLUSH MOTORS/RH G | 21MG | C 2 |
| 811VU | FLUSH MOTORS/LH F | 22MG | C11 |
| 811VU | LAVATORY REAR/OCCUPIED | 11WJ | B 6 |
| 811VU | LAVATORY REAR/LIGHT | 11LQ | B 2 |
| 811VU | CALL-SYSTEM/LAVATORY | 29LN | B16 |

R **ON A/C 101-200,

R (5)Make certain that the following circuit breakers are closed:

| R | PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|---|
| R | 22VU | COM/PASSENGER ADDRESS | 5RY | B15 |
| R | 22VU | EMER LT/TOILETS | 1WL | E26 |
| R | 22VU | PASSENGER OXYGEN CTL & WARN | 1WR | H24 |
| R | 22VU | PASSENGER OXYGEN ACTUATION | 2WR | H25 |
| R | 22VU | PASSENGER OXYGEN ACTUATION | 3WR | H26 |
| R | 22VU | PASSENGER OXYGEN ACTUATION | 4WR | H27 |
| R | 22VU | PASSENGER OXYGEN ACTUATION | 5WR | H28 |
| R | 131VU | SMOKE DET LAV | 1WQ | E51 |
| R | 132VU | LIGHTING - PASSENGER SIGNS - SEAT BELTS/RETURN | 28WJ | P83 |
| R | 132VU | LIGHTING - PASSENGER SIGNS - SEAT BELTS/RETURN | 29WJ | P82 |
| R | 800VU | CALL-SYSTEM/TEST | 5LN | E11 |

R EFFECTIVITY: 001-200,

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | CALL-SYSTEM/LAVATORY | 4LN | E12 |
| 800VU | LAVATORY FWD & MID/LIGHT | 1LQ | G 2 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 1MB | G 7 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 42MB | G 8 |
| 800VU | LAVATORY FWD & MID/OCCUPIED | 1WJ | G 4 |
| 811VU | LAVATORY AFT/LIGHT | 11LQ | B 2 |
| 811VU | LAVATORY AFT/HOT-WATER | 11MB | B 4 |
| 811VU | LAVATORY AFT/HOT-WATER | 13MB | B 5 |
| 811VU | LAVATORY AFT/OCCUPIED | 11WJ | B 6 |
| 811VU | CALL - SYSTEM/LAVATORY | 29LN | B16 |

**ON A/C ALL

D. Test

Test of lavatory lighting

| ACTION | RESULT |
|---|---|
| 1. On panel 22VU:<br>- close circuit breaker 1WL EMER LT/TOILETS. | In all lavatories:<br>- lavatory auxiliary light comes on. |
| 2. On panel 800VU:<br>- place toggle switch 2LQ in ON position. | In each Fwd lavatory:<br>- fluorescent lamps come on with half light intensity (50%). |
| 3. On panel 800VU:<br>- place toggle switch 2LQ in ON position. | In each middle lavatory:<br>- fluorescent lamps come on with half light intensity (50%). |
| 4. On panel 811VU:<br>- place toggle switch 12LQ in ON position. | In each REAR lavatory:<br>- fluorescent lamps come on with half light intensity (50%). |
| 5. In each lavatory:<br>- close and lock lavatory door. | In each lavatory:<br>- fluorescent lamps come on with full light intensity (100%). |
| - unlock and open lavatory door. | - fluorescent lamps are dimmed to half light intensity (50%). |
| - press pushbutton switch in ceiling panel (optional). | - integral indicator light in push-button switches come on.<br>- fluorescent lamps revert to full light intensity (100%). |
| - close and lock lavatory door. | - fluorescent lamps remain on with full light intensity (100%) and pushbutton switch reverts to OFF position.<br>- integral indicator light in push-button switches go OFF. |
| - unlock and open lavatory door. | - fluorescent lamps are dimmed to half light intensity (50%). |
| 6. On panel 800VU: | In FWD lavatory: |

| ACTION | RESULT |
|---|---|
| - place toggle switch 2LQ in OFF position. | - fluorescent lamps go off. |
| 7. On panel 800VU:<br>- place toggle switch 2LQ in OFF position. | In each middle lavatory:<br>- fluorescent lamps go off. |
| 8. On panel 811VU:<br>- place toggle switch 12LQ in OFF position. | In each REAR lavatory:<br>- fluorescent lamps go off. |

Test of FWD lavatory OCCUPIED signs

NOTE : During the following test the lavatory doors may be locked or unlocked externally by inserting a suitable tool into the mechanism of the OCCUPIED sign in the door and moving the sign in the required direction.

| ACTION | RESULT |
|---|---|
| 1. On panel 800VU:<br>- close circuit breaker 1WJ LAVATORY FRONT/OCCUPIED. | In respective passenger sign LAVATORY:<br>- lavatory legend comes on. |
| 2. In lavatories:<br>- close and lock lavatory door. | In respective passenger sign LAVATORY:<br>- OCCUPIED sign indicator comes on.<br>(The following step is only applicable to lavatory A).<br>On panel 130VU:<br>- annunciator 89WJ comes on. |
| - unlock and open lavatory door. | In respective passenger sign LAVATORY:<br>- OCCUPIED sign indicator goes off.<br>(The following step is only applicable to lavatory A).<br>On panel 130VU:<br>- annunciator 89WJ goes off. |

Test of MID lavatories OCCUPIED signs

NOTE : During the following test the lavatory doors may be locked or unlocked externally by inserting a suitable tool into the mechanism of the OCCUPIED sign in the door and moving the sign in the required direction.

| ACTION | RESULT |
|---|---|
| 1. On panel 800VU:<br>- close circuit breaker 1WJ LAVATORY MID/OCCUPIED | In respective passenger sign LAVATORY:<br>- Lavatory legend comes on. |
| 2. In lavatories:<br>- close and lock lavatory door. | In respective passenger sign LAVATORY:<br>- OCCUPIED sign indicator comes on. |

| ACTION | RESULT |
|---|---|
| - unlock and open lavatory door. | In respective passenger sign LAVATORY:<br>- OCCUPIED sign indicator goes off. |
| - Test of REAR lavatories OCCUPIED signs<br>NOTE : During the following test the lavatory doors may be locked or unlocked externally by inserting a suitable tool into the mechanism of the OCCUPIED sign in the door and moving the sign in the required direction. | |

| ACTION | RESULT |
|---|---|
| 1. On panel 811VU:<br>- close circuit breaker 11WJ LAVATORY AFT/OCCUPIED | In respective passenger sign LAVATORY:<br>- lavatory legend comes on. |
| 2. In lavatories:<br>- close and lock lavatory door. | In respective passenger sign LAVATORY:<br>- OCCUPIED sign indicator comes on. |
| - unlock and open lavatory door. | - OCCUPIED sign indicator goes off. |
| Test of lavatory call system | |

| ACTION | RESULT |
|---|---|
| 1. On panel 746VU:<br>- press pushbutton switch CALL TEST. | In each lavatory:<br>- the call button indicator light comes on. |
| 2. On panel 746VU:<br>- press pushbutton switch CALL TEST again. | In each lavatory:<br>- the call button indicator light goes off. |
| 3. In each lavatory:<br>- press call button. | In passenger compartment:<br>- on respective area call panels, amber call lights come on.<br>- amber call indicator light outside respective lavatory comes on.<br>In respective lavatory:<br>- integral indicator light in call button comes on. |
| - press call button again. | In passenger compartment:<br>- on respective area call panels, amber call lights go off.<br>- amber call indicator light outside respective lavatory goes off.<br>In respective lavatory:<br>- Integral indicator light in call button goes off. |
| Test of passenger address system | |

| ACTION | RESULT |
|---|---|
| 1. At electronic rack, panel 96VU:<br>- place test switch on front of PA amplifier 1RY in TONE position.<br>- place test switch in OPERATE position. | In each lavatory:<br>- test signal is heard at lavatory speakers.<br>- test signal stops. |
| 2. On panel 423VU:<br>- place toggle switch SEAT BELTS 33WJ in position SEAT BELTS. | In each lavatory:<br>- passenger sign RETURN TO SEAT comes on.<br>- LO chime is heard at lavatory speaker. |
| - place toggle switch SEAT BELTS 33WJ in position OFF. | - passenger sign RETURN TO SEAT goes off.<br>- LO chime is heard at lavatory speaker. |
| - place toggle switch 32WJ NO SMOKING switch in position ON. | - LO chime is heard at lavatory speaker. |
| - place toggle switch 32WJ NO SMOKING switch in position OFF. | - LO chime is heard at lavatory speaker. |
| - Test of water heaters<br>(a)Open sanitary unit cabinet doors and make certain that water shutoff valves are opened.<br>(b)Perform test. | |

| ACTION | RESULT |
|---|---|
| 1. In each lavatory:<br>- place water heater ON-OFF switch in ON position. | In each lavatory:<br>- water heater indicator light comes on. |
| - After at least 10 minutes heating time open hot water faucet. | - hot water flows from faucet. |
| - place water heater ON-OFF switch in OFF position. | - water heater indicator light goes off. |
| (c)Close sanitary unit cabinet doors.<br>Test of passenger oxygen system.<br>(a)On ALL passenger emergency oxygen containers, pull out door stops and rotate thru 90° to TEST position.<br>(b)Perform test.<br>CAUTION : SWITCH 14WR MUST NOT BE HELD IN MAN OVRD POSITION FOR MORE THAN 5 SEC. | |

| ACTION | RESULT |
|---|---|
| 1. On panel 435VU:<br>- lift guard and place switch 14WR to MAN OVRD position | On panel 435VU:<br>- indicator light 13WR SYS ACTUATED comes on. |

| ACTION | RESULT |
|---|---|
| and release. | On all emergency oxygen containers:<br>- all doors open to maximum permitted by door stops. |
| 2. On panel 471VU:<br>- press pushbutton 15WR RESET. | On panel 435VU:<br>- indicator light 13WR SYS ACTUATED goes off. |
| 3. On all emergency oxygen containers:<br>- depress spring loaded latch using manual release tool, and close door. | On all emergency oxygen containers:<br>- door remains closed. |

(c)Rotate oxygen container door stops thru 90° and allow stops to retract under spring tension to the operating position.
(d)Replace snapwire on guard of switch 14WR.
Test operation of lavatory smoke detector

| ACTION | RESULT |
|---|---|
| 1. On all lavatory walls, purser panel 863VU and evac. panel 866VU:<br>- press pushbutton light.<br>- release pushbutton light. | On all lavatory walls, purser panel 863VU and evac. panel 866VU:<br>- pushbutton light comes on.<br>- pushbutton light goes off. |
| 2. On purser panel 863VU:<br>- place LAV SMOKE DET selector switch 5WQ in FWD A position.<br>- press PTT pushbutton switch. | On purser panel 863VU:<br>- test legend of PTT pushbutton switch 4WQ comes on.<br><br>In passenger compartment:<br>- HI-LO-TONE sounds<br>On area control panel:<br>- warning light comes on.<br>At all stations:<br>- CAPT pushbutton light comes on.<br>- CALL pushbutton light comes on.<br>On lavatory wall:<br>- SMOKE warning light comes on.<br>On purser panel 863VU:<br>- SMOKE LAV FWD 3WQ warning light comes on.<br>On evac. panel 866VU:<br>- SMOKE LAV AFT 6WQ warning light comes on. |
| - release PPT pushbutton switch. | On lavatory wall:<br>- SMOKE warning light goes off.<br>On purser panel 863VU:<br>- SMOKE LAV FWD 3WQ warning light goes off.<br>On evac.panel 866VU:<br>- SMOKE LAV 6WQ warning light goes off. |

| ACTION | RESULT |
|---|---|
| 3. At attendant station:<br>- Lift handset and replace. | On area control panel:<br>- Warning light goes off.<br>On all stations:<br>- CAPT pushbutton lights go off.<br>- CALL pushbutton lights go off. |
| 4. Repeat actions described in steps 2 and 3 above, placing test selector switch successively in the relevant position dependant on smoke detector to be tested. | Results are similar to those of steps 2 and 3 with illumination and extinguishing of warning lights corresponding to test selector switch position. |
| 5. On purser panel 863VU:<br>- place LAV SMOKE DET selector switch 5WQ in NORM FLT position. | On purser panel 863VU:<br>- Test legend of PTT pushbutton switch 4WQ goes off. |

E. Close-Up

(1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(2) De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

LAVATORIES - INSPECTION/CHECK

1. Reason for the Job

A. Detailed Inspection of the Waste Bins and Check of Closing Flaps for Proper Operation.

R B. General Visual Inspection of the Attachment Points and Tension Rods.

2. Equipment and Material

| ITEM | DESIGNATION |
|---|---|
| R A. | LIGHT SOURCE - INSPECTION |
| R B. | MIRROR - INSPECTION |

R Referenced Procedures

| | |
|---|---|
| R - 25-23-11, P. Block 401 | Ceiling Panels |
| R - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| R - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| R - 25-45-11, P. Block 401 | Toilet Shroud |
| R - 51-76-10, P. Block 801 | Repair of Sealing |

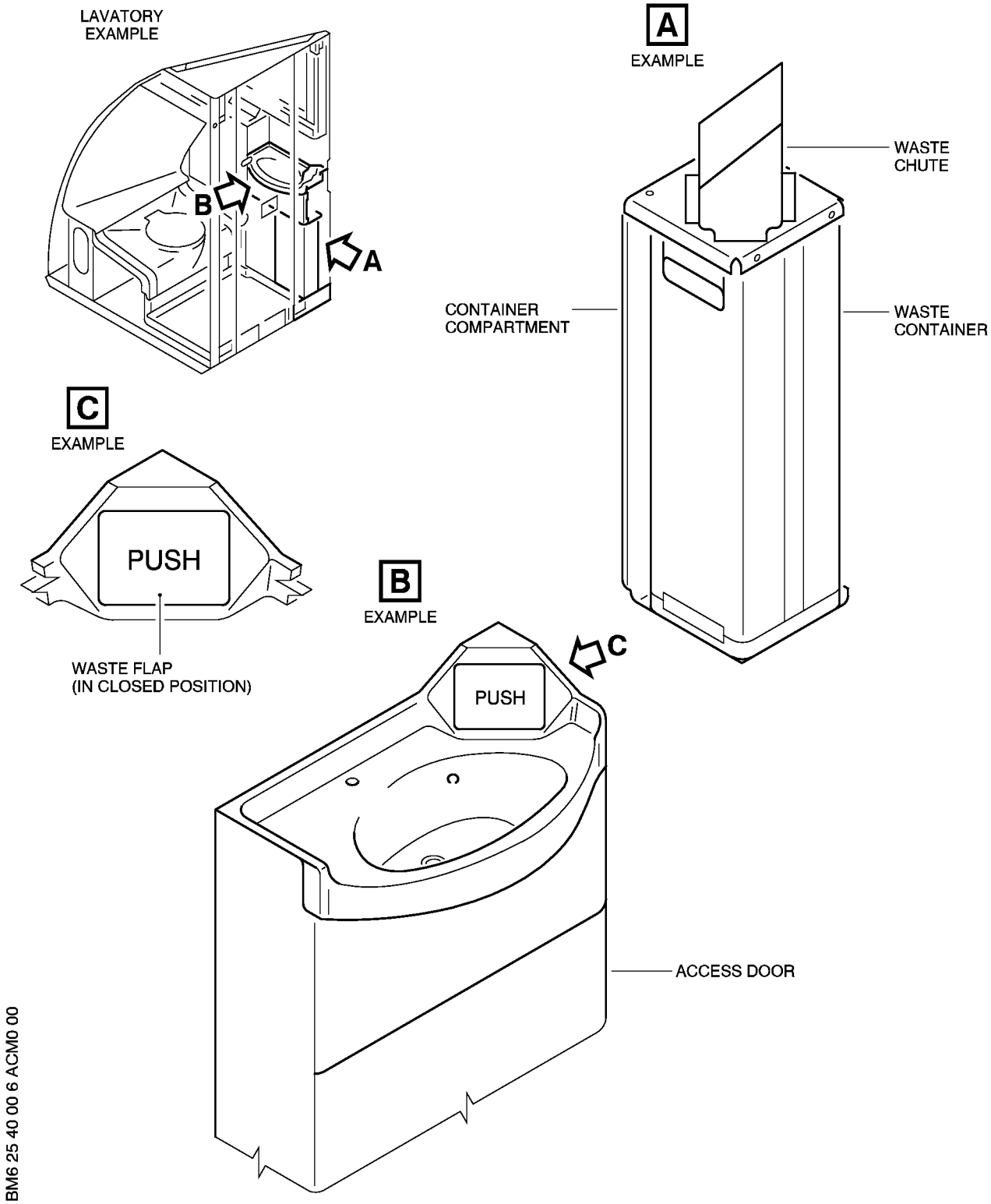
3. Procedure
(Ref. Fig. 601)
R (Ref. Fig. 602)

A. Job Set-Up

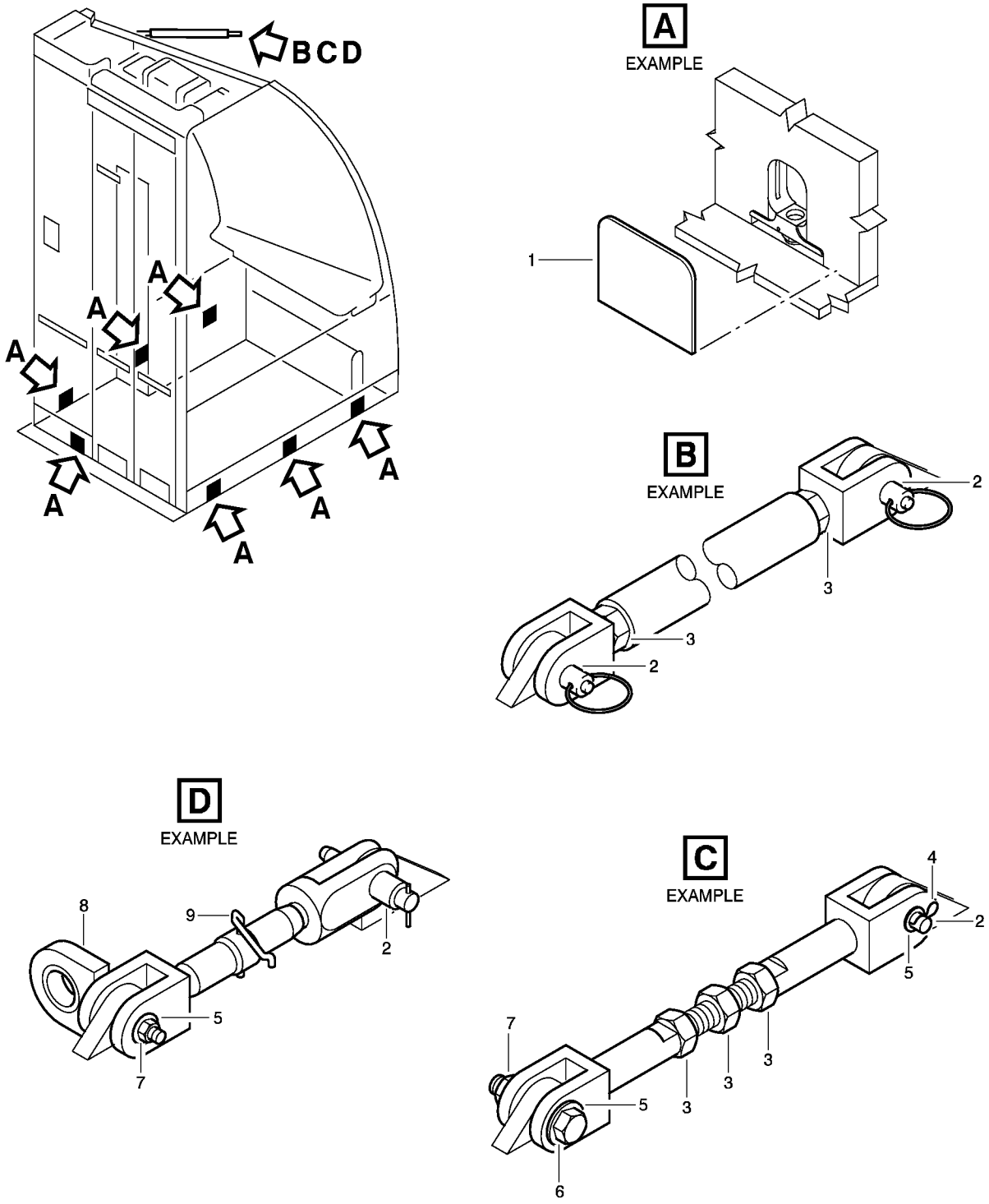
R (1) For the inspection of the waste compartment and waste container:
(a) Open the applicable lavatory door.
(b) Open the waste container access door.
(c) Remove and clean the waste container.
(d) Remove nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).
(e) In the lavatory, release the fasteners and open the ceiling access cover assembly.
(f) Remove the access panel from the base of the lavatory waste bin compartment.
(g) Remove the toilet shroud (Ref. 25-45-11, P. Block 401).

R (2) For the visual inspection of the attachment points and tension
R rods:
R (a) Remove the covers (1).
R (b) If you cannot get access to the upper attachment, remove
R the applicable ceiling panels:
R - ceiling panels (Ref. 25-23-11, P. Block 401)
R - utility area ceiling panels (Ref. 25-23-13, P. Block
R 401).

R B. Detailed Inspection of the Waste Compartment, the Waste Container,




Lavatory Waste Container
Figure 601

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Lavatory Attachment Points and Tension Rods
Figure 602

R

the Waste Flap and Operational Check of the Waste Flap.
(1) Visually examine the waste container compartment, the waste container and the waste flap for:
- distortion
- cracks
- corrosion
- signs of fire damage
- contamination.
(2) With a mirror and a light source, visually examine the waste chute for:
- distortion
- corrosion
- signs of fire damage
- contamination.
(3) Operate the waste flap to make sure that the waste flap closes and seals correctly.

R C. General Visual Inspection of the Attachment Points and Tension Rods.

R NOTE : You will need a Mirror - Inspection and a Light Source - Inspection for the inspection procedure.

R (1) Do a visual inspection of the upper attachment points.
R For each lavatory make sure that:
R - the quick release pins (2)
R - the lockwire to safety the locknut (3)
R - the pin-lock (4)
R - the washers (5)
R - the bolt (6)
R - the nuts (7)
R - the fitting-eye end (8)
R - the clip (9)
R are correctly installed,there are no cracks or corrosion
R and that there is no contamination.
R (2) Visually examine the lower attachment point for:
R - cracks
R - corrosion
R - correct installation
R - contamination.
R (3) Make sure that the sealing is in good condition.
R (a) If necessary do a repair of the sealing (Ref. 51-76-10 P. Block 801).

D. Close-Up
R Do these steps:
R (1) After the inspection of the waste compartment and waste container:
R (a) Make sure that the work area is clean and clear of tool(s) and other items.
R (b)Install the waste container.
R (c)Close the waste container access door.
R (d)Close the lavatory door.

R (e)Install the toilet shroud (Ref. 25-45-11, P. Block 401).
R (f)Install the access panel from base of the lavatory waste bin compartment.
R (g)Install the nontextile floor covering in lavatory area, as removed (Ref. 25-28-12, P. Block 401).

R (2) After the visual inspection of attachment points and tension rods:
R (a)Make sure that the work area is clean and clear of tool(s) and other items.
R (b)Install the covers (1).
R (c)If removed install the applicable ceiling panels:
R - ceiling panels (Ref. 25-23-11, P. Block 401)
R - utility area ceiling panels (Ref. 25-23-13, P. Block 401).

## LAVATORY A - REMOVAL/INSTALLATION

WARNING : LAVATORY WEIGHS APPROX. 106 kg (234 lb.).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Reasons for the Job

A. Gaining access to aircraft structure.

B. Lavatory replacement or repair.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 3 m (10 ft.) |
| B. | O-Rings |
| C. | Cable Ties |
| D. | Protective Plugs and Caps |
| E. | Circuit Breaker Safety Clips and Tags |
| F. | Electrical Ground Power Unit - 3-Phase 115/200V, 400 Hz |
| G. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| H. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| M. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| N. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| P. Material No. 08-025 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| Q. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| R. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| S. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-16-38, P. Block 1 | Replenishing Toilets |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 23-31-00, P. Block 501 | Passenger Address System |
| - 23-43-00, P. Block 501 | Cabin and Flight Crew Call System |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-23-41, P. Block 401 | Door Frame Linings |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |
| - 25-45-11, P. Block 401 | Toilet Shroud |
| - 25-63-00, P. Block 501 | Evacuation Signaling Equipment |
| - 26-17-11, P. Block 401 | Smoke Detector |

- 33-21-00, P. Block 501 General Illumination
- 33-23-00, P. Block 501 Call System
- 33-26-00, P. Block 501 Passenger Lighted Signs
- 33-27-00, P. Block 501 Cabin Attendant Work Lights
- 38-35-00, P. Block 501 Vacuum Toilet System
- 38-40-00, P. Block 301 Air Supply

3. Procedure

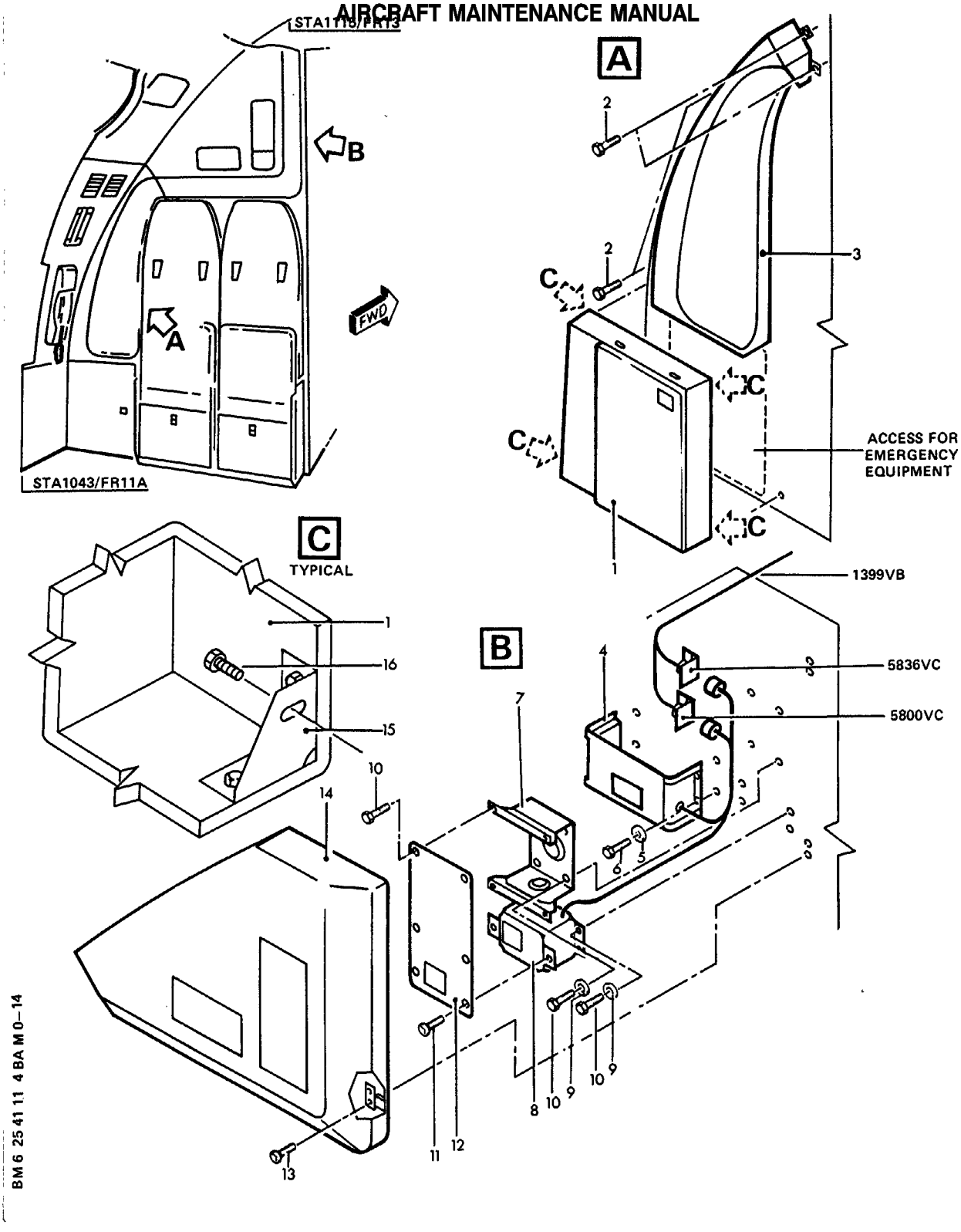
A. Job Set-Up
(1)Position access platform and gain access to aircraft through an appropriate passenger/crew door.
(a)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 21VU | CALLS/CABIN | 1RM | J7 |
| 22VU | EMER LIGHTING/TOILETS | 1WL | E26 |
| 22VU | EVAC SIGNAL | 1WP | E24 |
| 22VU | PASSENGER OXYGEN/ACTUATION | 2WR | H25 |
| 22VU | COM/PASSENGER ADDRESS | 5RY | B15 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING-PASSENGER-SIGNS-SEAT BELTS/RETURN | 29WJ | P82 |
| 800VU | LIGHT/ENTRY | 20LG | A9 |
| 800VU | LIGHT CONTROL/ENTRY | 21LG | A10 |
| 800VU | LIGHT CONTROL/CABIN | 119LG | A12 |
| 800VU | LIGHT CONTROL/CABIN | 124LG | A13 |
| 800VU | CALL-SYSTEM/PASS | 1LN | E13 |
| 800VU | CALL-SYSTEM/TEST | 3LN | E10 |
| 800VU | CALL-SYSTEM/TEST | 5LN | E11 |
| 800VU | CALL-SYSTEM/LAVATORY | 4LN | E12 |
| 800VU | LAVATORY FWD/LIGHT | 1LQ | G2 |
| 800VU | LIGHT/ATTN | 1LZ | C13 |
| 800VU | WATER SYSTEM | 1MD | H6 |
| 800VU | WATER SYSTEM | 1MA | H5 |
| 800VU | WATER SYSTEM | 1MP | H7 |
| 800VU | LAVATORY FWD/HOT WATER | 1MB | G7 |
| 800VU | LAVATORY FWD/SHAVER SOCKET | 1MT | G6 |
| 800VU | LAVATORY FWD/OCCUPIED | 1WJ | G4 |
| 800VU | FLUSH CTL/LH | 111MG | J10 |
| 811VU | VACUUM BLOWER/LH | 110MG | C5 |

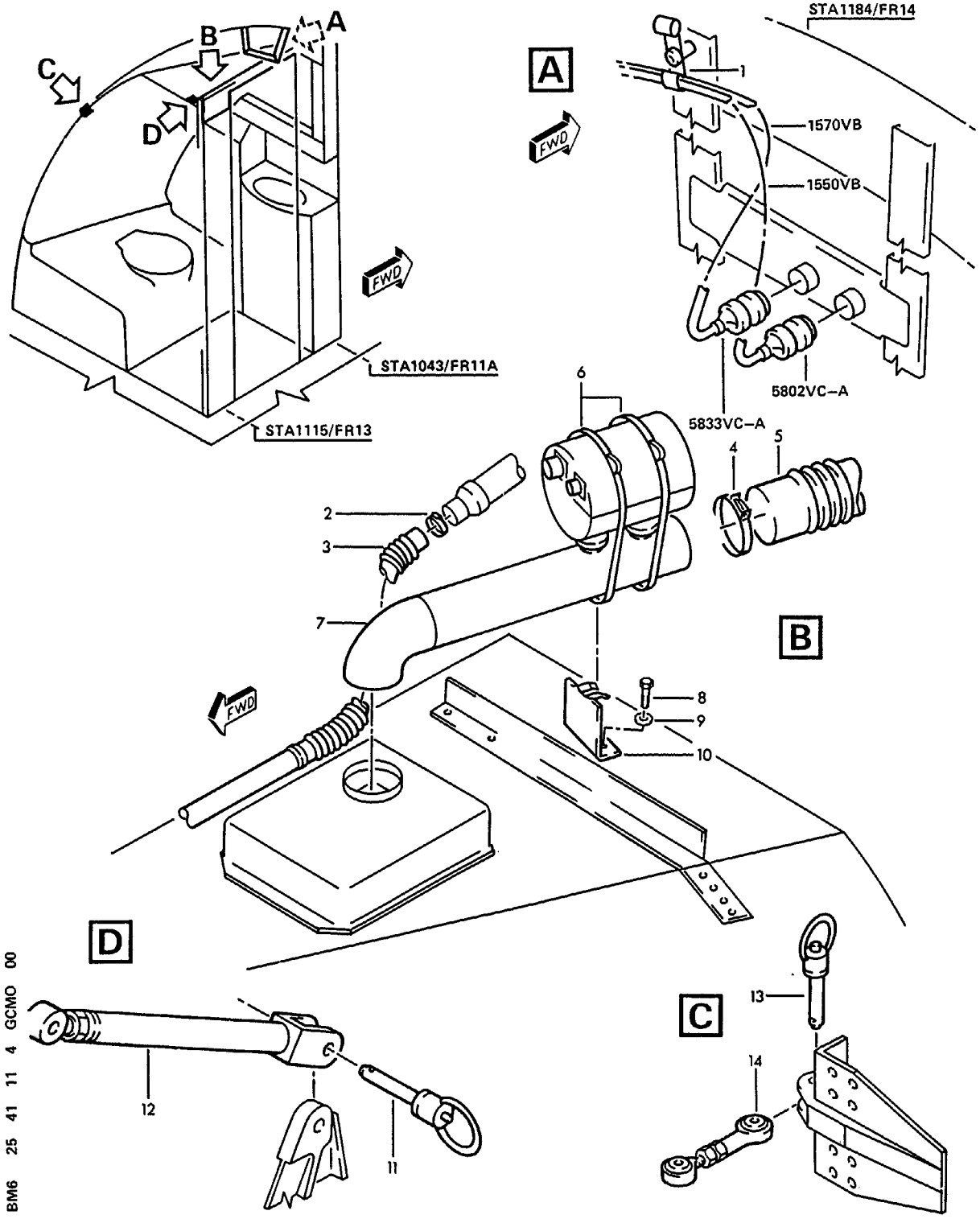
(2)Remove nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).
(3)Remove equipment from stowage compartment adjacent to cabin attendant station.
(4)Remove equipment from stowage compartment in FWD face of lavatory, with access from flight compartment.
(5)Remove cabin attendant seats (Ref. 25-21-61, P. Block 401).

(6)In lavatory, release fasteners and open ceiling access cover assembly.
(7)Remove access panel from base of lavatory waste bin compartment.
(8)Remove toilet shroud (Ref. 25-45-11, P. Block 401).
(9)At STA1139/FR13A remove FWD door frame lining including access door for emergency equipment.
(10)Between STA1139/FR13A and STA1184/FR14 remove door frame linings, as necessary for removal of lavatory (Ref. 25-23-41, P. Block 401).
(11)In area of FWD passenger/crew door (LH), remove utility area ceiling panels (Ref. 25-23-13, P. Block 401).
(12)Remove smoke detector (Ref. 26-17-11, P. Block 401).
(13)Relieve water system pressure.
(a)Position access platform.
(b)Open water service panel access door 136BR.
(c)Turn fill/overflow and drain valve control handle to position DRAIN and pull.
NOTE : Air pressure will escape via overflow port.
(d)Turn fill/overflow and drain valve control handle until locked in position NORMAL.

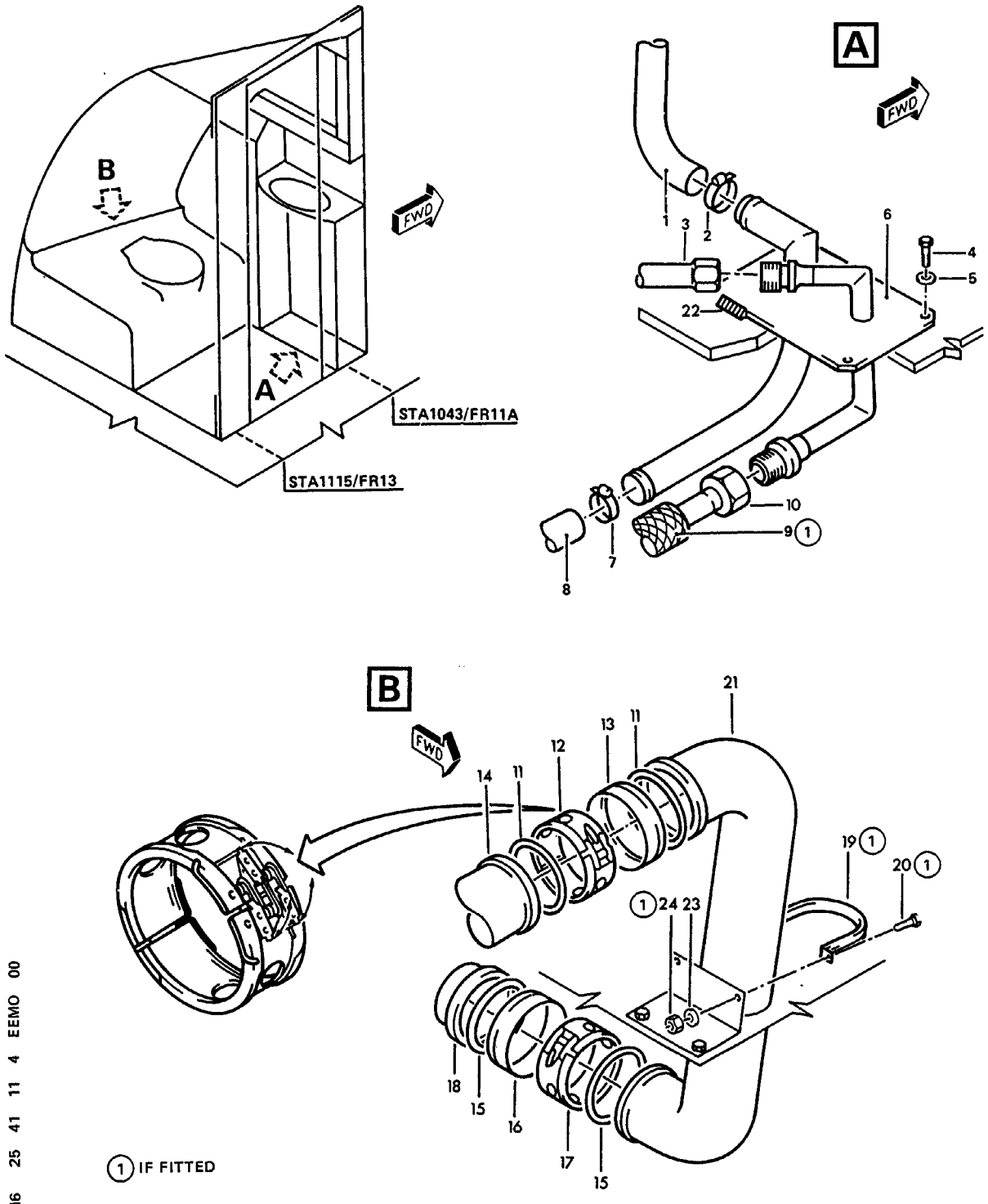
B. Removal
(Ref. Fig. 401)
(1)Remove purser station and interphone panel.
(a)Remove screws (2) and cover (3).
(b)Remove screws (13) and cover (14).
(c)Remove screws (16) thru brackets (15) and cover (1).
(d)Disconnect connector 5800VC.
(e)Disconnect connector 5836VC.
(f)Remove screws (11) and cover plate (12).
(g)Remove screws (10), washers (9), bracket (7) and control panel 746VU (8).
(h)Remove screws (6), washers (5) and control panel 863VU (4).
(j)Release cable bundles 1399VB and stow.
(k)Remove brackets for connectors 5800VC and 5836VC if necessary.
(2)Remove upper connections.
(Ref. Fig. 402)
(a)At STA1184/FR21, disconnect electrical connectors 5802VC-A, 5833VC-A and fit protective caps.
(b)Along STA1184/FR21, release cable bundles 1550VB and 1570VB from cable bundle 1399VB.
(c)Release cable bundle 1550VB and 1570VB from clamp (1).
(d)Remove clamps (6).
(e)Remove smoke detector (Ref. 26-17-11, P. Block 401).
(f)Remove clamp (2), disconnect hose (3), and secure to aircraft structure.
(g)Remove clamp (4) and disconnect hose (5).
(h)Remove bolts (8), washers (9), bracket (10) complete with hose (7).
(j)Remove pip pin (11), tie-rod (12) and secure to aircraft structure.
(k)Remove pip pin (13), tie-rod (14) and secure to aircraft structure.
(3)Disconnect water/waste connections.
(Ref. Fig. 403)




Purser Station and Interphone Panel
Figure 401




Lavatory A - Upper Connections
Figure 402




BM6 25 41 11 4 EEMO 00

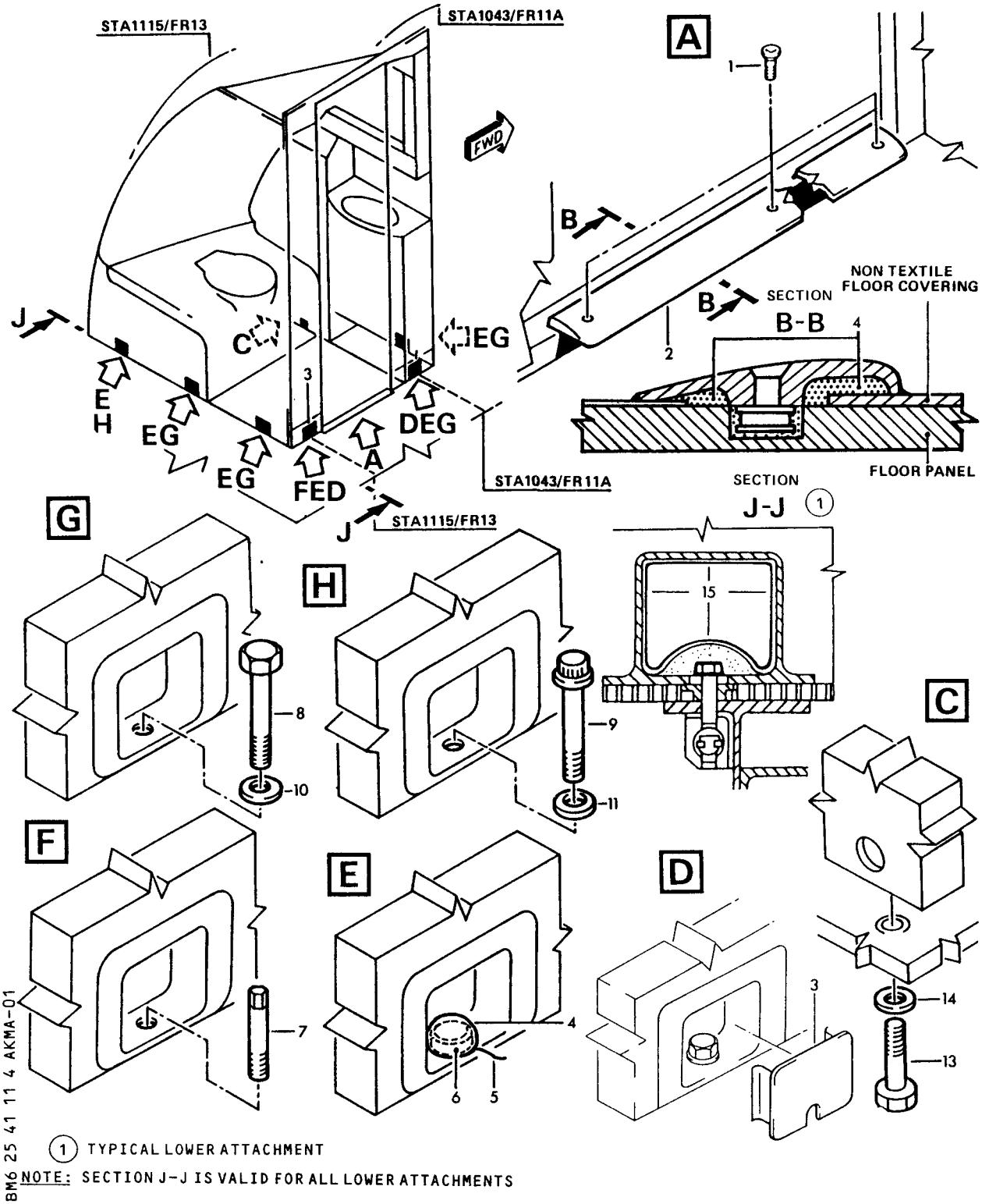
Water/Waste Connections
Figure 403

NOTE : Steps (a) thru (d) are accomplished in avionics compartment and steps (e) thru (n) in lavatory.

(a)Release clamp (7) and disconnect supply line (8).
(b)Disconnect sleeve (9) (if fitted) and supply line (10).
(c)Release clamshell (17) and slide over pipe (18).
NOTE: Quick-release action of the clamshells enables assembly and removal by one hand. All three latch pawls must be lifted simultaneously to disengage the latch.
(d)Remove O-rings (15), sleeve (16) and disconnect pipe (18). Discard O-rings (15).
(e)If fitted, remove bolts (20), clamp (19), washers (23) and nuts (24).
(f)Remove pipe (21).
(g)Release clamshell (12) and slide over pipe (14).
(h)Remove O-rings (11), sleeve (13) and disconnect pipes (14, 21). Discard O-rings (11).
(j)Release clamp (2) and disconnect hose (1).
(k)Disconnect supply line (3).
(l)Fit protective plugs and caps to all disconnected lines and unions.
(m)Remove bolts (4), washers (5) and connection plate (6).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(n)Remove sealant remnants from plate (6) using cleaning agent (Mat. No. 11-003) and nonmetallic scraper.

(4)Removal of lower attachments and subsequent lavatory removal (Ref. Fig. 404)
(a)Remove screws (1) and threshold (2).
(b)Remove cover plates (3).
NOTE : Use a suitable tool for removing the cover plates.
(c)Remove protection wax (15).
(d)Release sealant (4) at lower attachment points by pulling embedded cord (5).
(e)Remove bolts (6, 7).
(f)Remove bolts (8, 9) and washers (10, 11).
(g)Remove screws (12).
(h)Remove lavatory floor attachments.
1 From avionics compartment, remove bolts (13) and washers (14).
(j)Remove lavatory assembly.
R 1 At lavatory base, remove tape (16).
2 Release sealant from gaps between lavatory floor and cabin floor by pulling embedded cord (5).
WARNING : LAVATORY WEIGHS APPROX. 106 kg (234 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
3 Lift and slide lavatory assembly clear.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(3)Make certain that bushings and plates or bushings or plates in lavatory area in correct position.

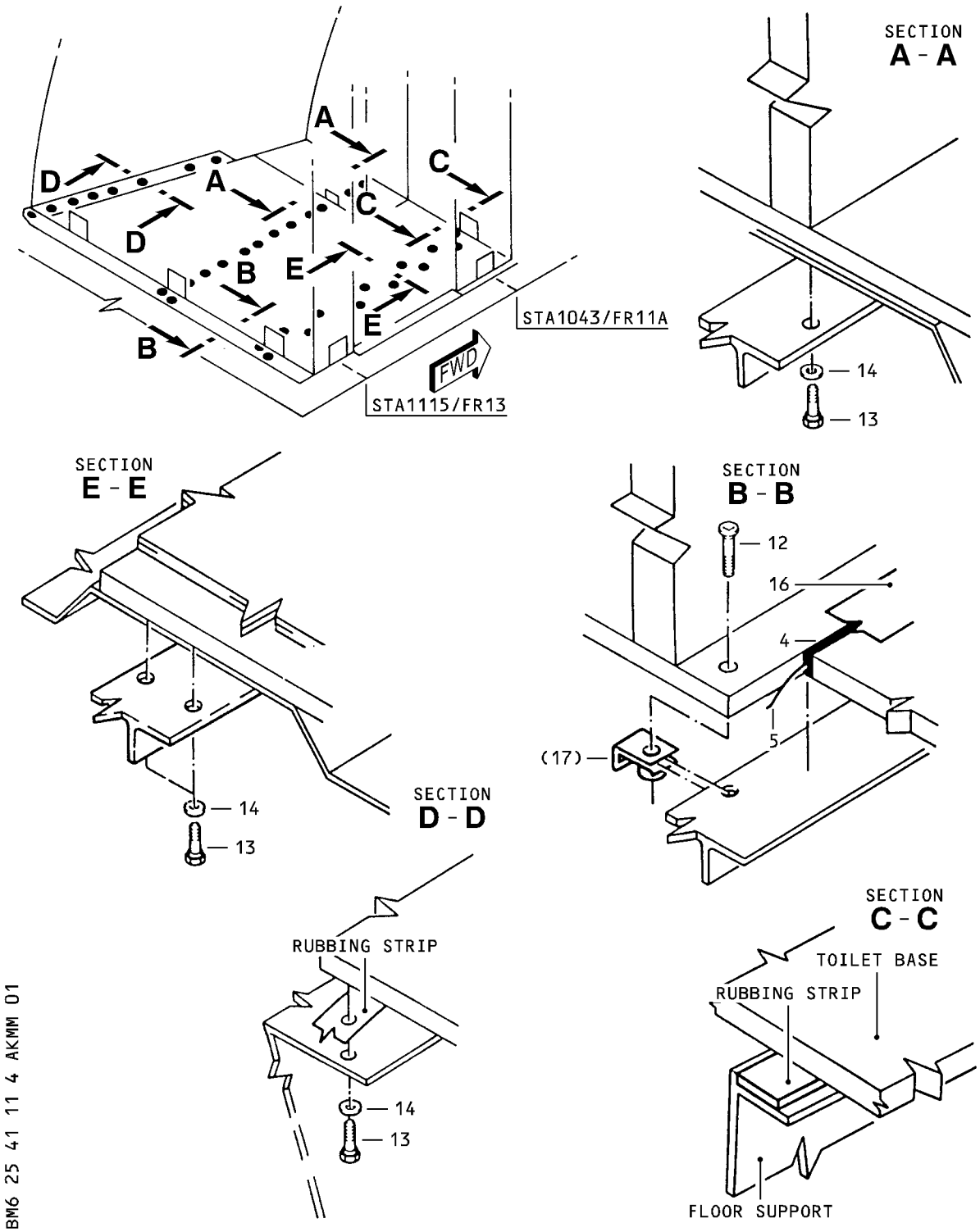



(1) TYPICAL LOWER ATTACHMENT

NOTE: SECTION J-J IS VALID FOR ALL LOWER ATTACHMENTS

Lavatory A - Lower Attachments (Sheet 1/2)
Figure 404

R

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Lavatory A - Lower Attachments (Sheet 2/2)
Figure 404

R

D. Installation

(1)Prepare lavatory area for installation.
(Ref. Fig. 404)
(a)Visually inspect structure for damage and corrosion.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(b)Remove all traces of old sealant, using cleaning agent (Mat. No. 11-003) and nonmetallic scraper.
R (c)Check for correct position and condition of clip nuts (17) located on structure.
(d)Inspect, and if necessary, replace rubbing strips (Mat. No. 08-005).
NOTE : Rubbing strips are 2 mm (0.08 in.) and 4 mm (0.16 in.) in thickness respectively.

WARNING : LAVATORY WEIGHS APPROX. 106 kg (234 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(2)Position lavatory assembly.
NOTE: Use strips of Teflon or similar material to slide lavatory into place.

(3)Connect lavatory attachments.
NOTE : Do not tighten fasteners at this stage.
(a)Install screws (12).
(b)From avionics compartment, secure lavatory assembly to floor structure,
R using bolts (13) and washers (14).

(4)Install lower attachments.
NOTE : Do not tighten fasteners at this stage.
(a)Install bolts (6, 7).
(b)Install bolts (8, 9) and washers (10, 11).
(c)Apply Common Grease (Mat. No. 04-001) on the threads of screws (6, 7, 8, 9 ).

(5)Install upper connections.
(Ref. Fig. 402)
(a)Release tie-rods (12, 14) and install to lavatory assembly using pip pins (8, 10).
NOTE : Adjust tie-rods (12, 14) if necessary.
(b)Install bracket (10), washers (9) and bolts (8) complete with hose (7).
(c)Connect hose (5) using clamp (4).
(d)Connect hose (3) using clamp (2).
(e)Install smoke detector (Ref. 26-17-11, P. Block 401).
(f)Install clamps (6).
(g)At STA1184/FR21, remove protective caps, connect electrical connectors 5802VC-A and 5833VC-A.
(h)Install cable bundle 1550VB and 1570VB to clamp (1).
(j)Secure cable bundle 1550VB and 1570VB to existing cable bundle 1399VB.

(6)At this stage, tighten all fasteners to secure lavatory to structure. Begin with underfloor fasteners and end with upper tie-rods.

(8)Seal lavatory assembly.
(Ref. Fig. 404)
(a)Lay length of cord (5) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus, in gap between lavatory floor and surrounding floor panels.
(b)Apply sealant (4) (Mat. No. 09-016) to fill gap.

NOTE: Do not apply sealant to cord surplus length.

(c)Lay length of cord (5) (Mat. No. 05-016) in loops in each attachment. fitting cavity and apply sealant (4) (Mat. No. 09-016).

NOTE : When applying sealant, leave approx. 100 mm (4 in.) length of cord exposed.

(d)To prevent corrosion, preserve Lavatory fittings with Storage Preservation (15) (Mat. No. 15-008).

NOTE: Use a brush for greasing the fittings.

(e)Around lavatory assembly, cover sealed gaps with tape (16) (Mat. No. 05-015).

(9)Install threshold (2).

R (a)Open the lavatory door.

R (b)Apply sealant (4) (Mat. No. 09-016) to underside of threshold (2).

R (c)Position threshold, coat screws (1) with anti-corrosion component

R (Mat. No. 05-002) and install.

R (d)At both ends of threshold (2) seal gaps, using sealant (4) (Mat. No. 09-016).

(10)Install cover plates (3).

(11)Connect water/waste connections.
(Ref. Fig. 403)

(a)Remove protective caps and plugs from disconnected lines and unions.

NOTE : Wrap sealing tape (Mat. No. 05-022) around threads, where hoses and tubes are to be connected.

(b)Apply release agent (Mat. No. 05-013) to floor contact surfaces of connection plate (6).

(c)Install connection plate (6), using washers (5) and bolts (4).

NOTE : Do not tighten bolts at this stage.

(d)Connect supply line (3).

(e)Connect hose (1), using clamp (2).

(f)Install pipe (21).

(g)Install clamp (19), bolts (20), washers (23) and nuts (24), if removed.

(h)Position new O-rings (11) and connect pipes (21, 14) with sleeve (13) and clamshell (12).

NOTE: Clamshell closure locks automatically when two halves are snapped together and cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch. Axial adjustment 6.35 mm (0.25 in.) minimum, angular misalignment for full coupling 9e4°.

NOTE: The following steps (j) thru (l) are to be carried out in avionics compartment.

(j)Connect supply line (8), using clamp (7).

(k)Connect supply line (10), position sleeve (9) and bond to connection plate (6) using adhesive compound (Mat. No. 08-025).

(l)Position new O-rings (15) and connect pipes (21, 18) with sleeve (16) and clamshell (17).

(m)At this stage tighten all bolts (4).

(n)Apply sealant (22) (Mat. No. 09-016) to periphery of connection plate (6).

(11)Install purser station and interphone panel.
(Ref. Fig. 401)

(a)Position and secure cable bundle 1399VB.
(b)Install control panel 863VU (4), using screws (6), washers (5) and connect connector 5800VC.
(c)Install control panel 746VU (8), bracket (7), screws (10), washers (9) and connect connector 5836VC.
(d)Install cover plate (12) using screws (11).
(e)Install cover (1) using screws (16) through brackets (15).
(f)Install cover (3) using screws (2).
(g)Install cover (14) using screws (13).
(12)Replenish potable water system as required (Ref. 12-15-38, P. Block 1).
(13)Pressurize potable water system (Ref. 38-40-00, P. Block 301) and open FWD water system shutoff valves.
(14)At this stage, replenish waste tank (Ref. 12-16-38, P. Block 1).
(15)Check lavatory waterline connections for leaks. Leaks are not permissible.

E. Test
(1)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Carry out operational tests of the following systems:
(a)Lavatory A Interface Systems (Ref. 25-40-00, P. Block 501).
(b)Passenger Address (Ref. 23-31-00, P. Block 501).
(c)Cabin and Flight Crew Call System (Ref. 23-43-00, P. Block 501).
(d)Evacuation Signaling Equipment (Ref. 25-63-00, P. Block 501).
(e)General Illumination (Ref. 33-21-00, P. Block 501).
(f)Capt - All Attendant Call (Ref. 33-23-00, P. Block 501).
(g)Cabin Attendant Worklights (Ref. 33-27-00, P. Block 501).
(h)Passenger Lighted Signs (Ref. 33-26-00, P. Block 501).
(j)Razor Sockets (Ref. 25-44-00, P. Block 501).
(k)Vacuum Toilet System (Ref. 38-35-00, P. Block 501).
(l)Lavatory smoke detection (Ref. 26-17-00, P. Block 501).

F. Close-Up
(1)Install nontextile floor covering, as required (Ref. 25-28-12, P. Block 401).
(2)Install lavatory smoke detector (Ref. 26-17-11, P. Block 401).
(3)Install utility area ceiling panels (Ref. 25-23-13, P. Block 401).
(4)Install door frame linings (Ref. 25-23-41, P. Block 401).
(5)Install cabin attendant seat (Ref. 25-21-61, P. Block 401).
(6)Secure lavatory ceiling access cover assembly.
(7)Install access panel at base of lavatory waste bin compartment.
(8)Install toilet shroud (Ref. 25-45-11, P. Block 401).
(9)Install equipment in stowage compartments, adjacent to cabin attendant station and in FWD face of lavatory, access from flight compartment.
(10)Close water service panel access door 136BR.
(11)Close all circuit breakers as mentioned in step 3.A.(1).
(12)Disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(13)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(14)Close passenger/crew door and remove access platform.

## LAVATORY C - REMOVAL/INSTALLATION

**WARNING** : LAVATORY WEIGHS APPROX. 103 kg (227 lb.).
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reasons for the Job

A. Gaining access to aircraft structure

B. Lavatory replacement or repair

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 3 m (10. ft.) |
| B. | Cotter Pin |
| C. | O-Rings |
| D. | Cable Ties |
| E. | Tabwashers |
| F. | Circuit Breaker Safety Clips and Tags |
| G. | Protective Plugs and Caps |
| H. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| J. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| K. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| M. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| N. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| P. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| Q. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| R. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| S. Material No. 08-025 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| T. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| U. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| V. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 12-16-38, P. Block 1 | Replenishing Toilets |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-23-41, P. Block 401 | Door Frame Lining |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-31-12, P. Block 401 | FWD Galley Unit |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |

- 25-45-11, P. Block 401 Toilet Shroud
- 26-17-11, P. Block 401 Smoke Detector
- 38-35-00, P. Block 501 Vacuum Toilet System

3. Procedure

A. Job Set-Up

(1)Position access platform and gain entry to aircraft through an appropriate passenger/crew door.

(2)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 21VU | CALLS/CABIN | 1RM | J 7 |
| 22VU | EMER LIGHTING/TOILETS | 1WL | E26 |
| 22VU | PASSENGER OXYGEN/ACTUATION | 2WR | H25 |
| 22VU | COM/PASSENGER ADDRESS | 5RY | B15 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGNS/SEAT BELT & RETURN TO SEAT | 29WJ | P82 |
| 800VU | LIGHT/ENTRY | 20LG | A 9 |
| 800VU | LIGHT CONTROL/ENTRY | 21LG | A10 |
| 800VU | CALL-SYSTEM/PASS | 1LN | E13 |
| 800VU | CALL-SYSTEM/TEST | 3LN | E10 |
| 800VU | CALL-SYSTEM/TEST | 5LN | E11 |
| 800VU | CALL-SYSTEM/LAVATORY | 4LN | E12 |
| 800VU | LAVATORY FWD/LIGHT | 1LQ | G 2 |
| 800VU | WATER SYSTEM | 1MA | H 5 |
| 800VU | WATER SYSTEM | 1MD | H 6 |
| 800VU | WATER SYSTEM | 1MP | H 7 |
| 800VU | LAVATORY FWD/HOT WATER | 1MB | G 7 |
| 800VU | FLUSH CTL RH | 11MG | J 12 |
| 800VU | LAVATORY FWD/SHAVER SOCKET | 1MT | G 6 |
| 800VU | LAVATORY FWD/OCCUPIED | 1WJ | G 4 |
| 811VU | VACUUM BLOWER RH | 10MG | c 8 |

(3)Remove cabin attendant seat, if fitted (Ref. 25-21-61, P. Block 401).

(4)Remove nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).

(5)Remove galley unit (Ref. 25-31-12, P. Block 401).

(6)Remove curtain rails, as required (Ref. 25-26-00, P. Block 1).

(7)In lavatory, release fasteners and open ceiling access cover assembly.

(8)Remove toilet shroud (Ref. 25-45-11, P. Block 401).

(9)At STA1184/FR14 (RH) remove door frame linings, as necessary for removal of lavatory (Ref. 25-23-41, P. Block 401).

(10)In area of FWD passenger/crew door (RH) remove utility area ceiling panels (Ref. 25-23-13, P. Block 401).

(11)Remove smoke detector (Ref. 26-17-11, P. Block 401).

(12)Relieve water system pressure.

(a)Position access platform.

(b)Open water service panel access door 136BR.

(c)Turn fill/overflow and drain valve control handle to position DRAIN and pull.

NOTE : Air pressure will escape via overflow port.

(d)Turn fill/overflow and drain valve control handle until locked in position NORMAL.

B. Removal

(1)Remove upper connections.
(Ref. Fig. 401)

(a)Between STA 1139/FR13A and STA 1161/FR13B disconnect electrical connectors 5893VC-A (1) and 5894VC-A (2) and fit protective caps.

(b)Remove bolt (3), washers (4) and (5).

(c)Remove clamp (6), disconnect hose (7) and secure to lavatory structure.

(d)Remove clamp (8), disconnect hose (9) and secure to lavatory structure.

(e)Remove clamps (10), disconnect hose (11).

(f)If necessary, remove bolt (12), washer (13), clamp (14) and spacer (15) from lavatory surrounding area.

(g)Remove screws (16), washers (17) and brackets (18), complete with duct (19).

(2)Disconnect water/waste connections.
(Ref. Fig. 402)

NOTE : Steps (a) thru (d) are to be carried out in avionics compartment and steps (e) thru (m) in lavatory.

(a)Remove sleeve (17) and disconnect supply line (16).

(b)Release clamp (14) and disconnect waste line (15), remove clamp (14).

(c)Release clamshell (12) and slide over pipe (13).

NOTE : Quick disconnect action of the latch enables assembly and removal by one hand.

(d)Remove O-rings (11), sleeve (10) and disconnect pipe (13). Discard O-rings (11).

(e)Release clamshell (3) and slide over pipe (5).

(f)Remove O-rings (2), sleeve (4) and disconnect pipes (1, 5). Discard O-rings (2).

(g)Remove nuts (6), washers (7), bolts (9) and clamp (8), if fitted.

(h)Release clamp (22) and disconnect waste line (21), remove clamp (22).

(j)Disconnect supply line (23) and fit blanking caps and plugs to all disconnected lines and unions.

(k)Remove bolts (20), washers (19) and connection plate (18).

(l)Remove nut (25), washer (26), bolt (28) and disconnect bonding strap (27).

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(l)Remove sealant (24) from plate (18) using cleaning agent (Mat. No. 11-003) and nonmetallic scraper.

(3)Remove lower attachments
(Ref. Fig. 403, 404)

(a)Remove screws (9) and threshold (8).

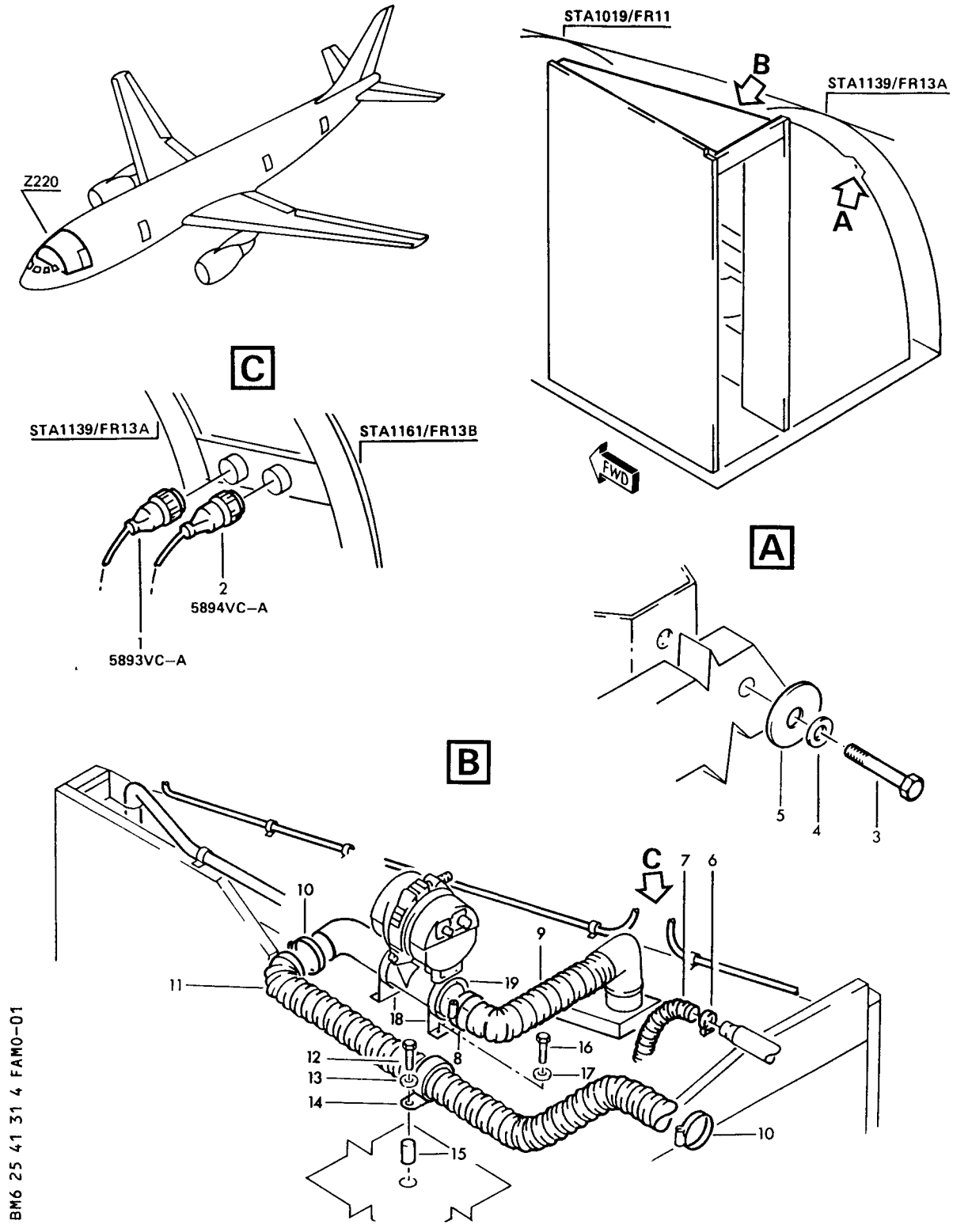
(b)Remove cover plates (1).

NOTE : Use a suitable tool for removing the cover plates.

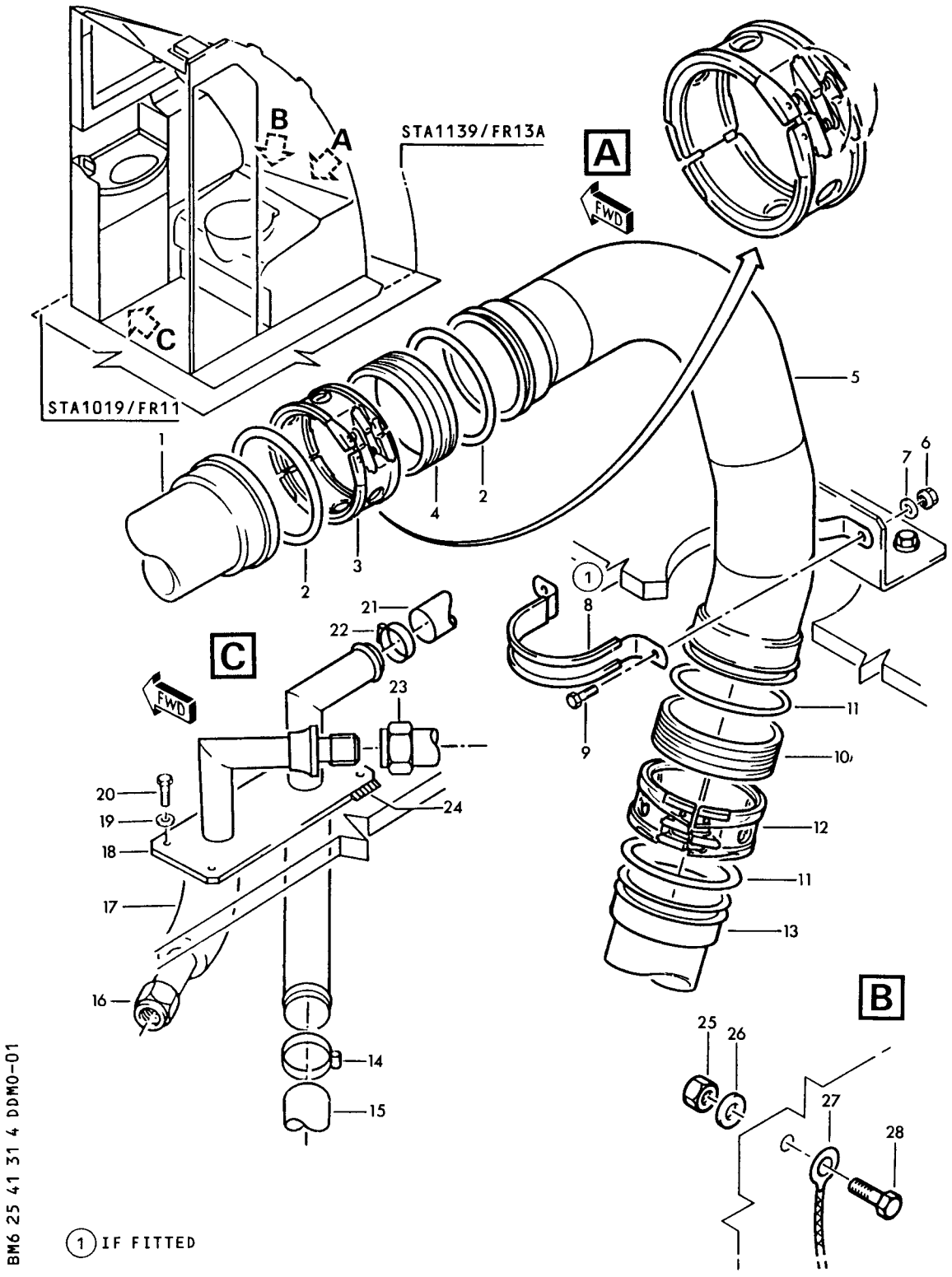
(c)Remove protection wax (12).

(d)At lavatory base, remove tape (10).

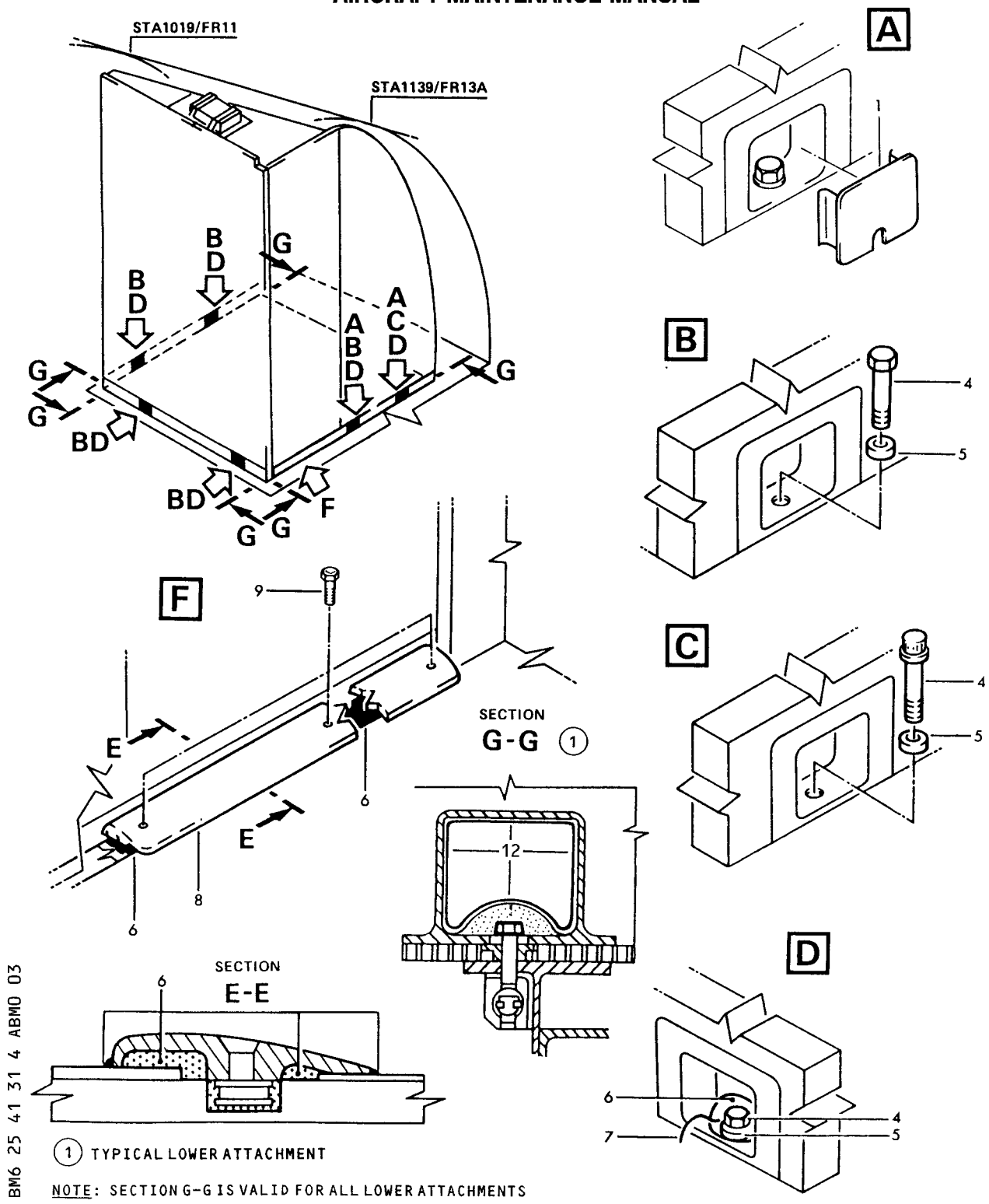
(e)Release sealant (6) at lower attach points by pulling embedded cord (7).




Upper Connections
Figure 401



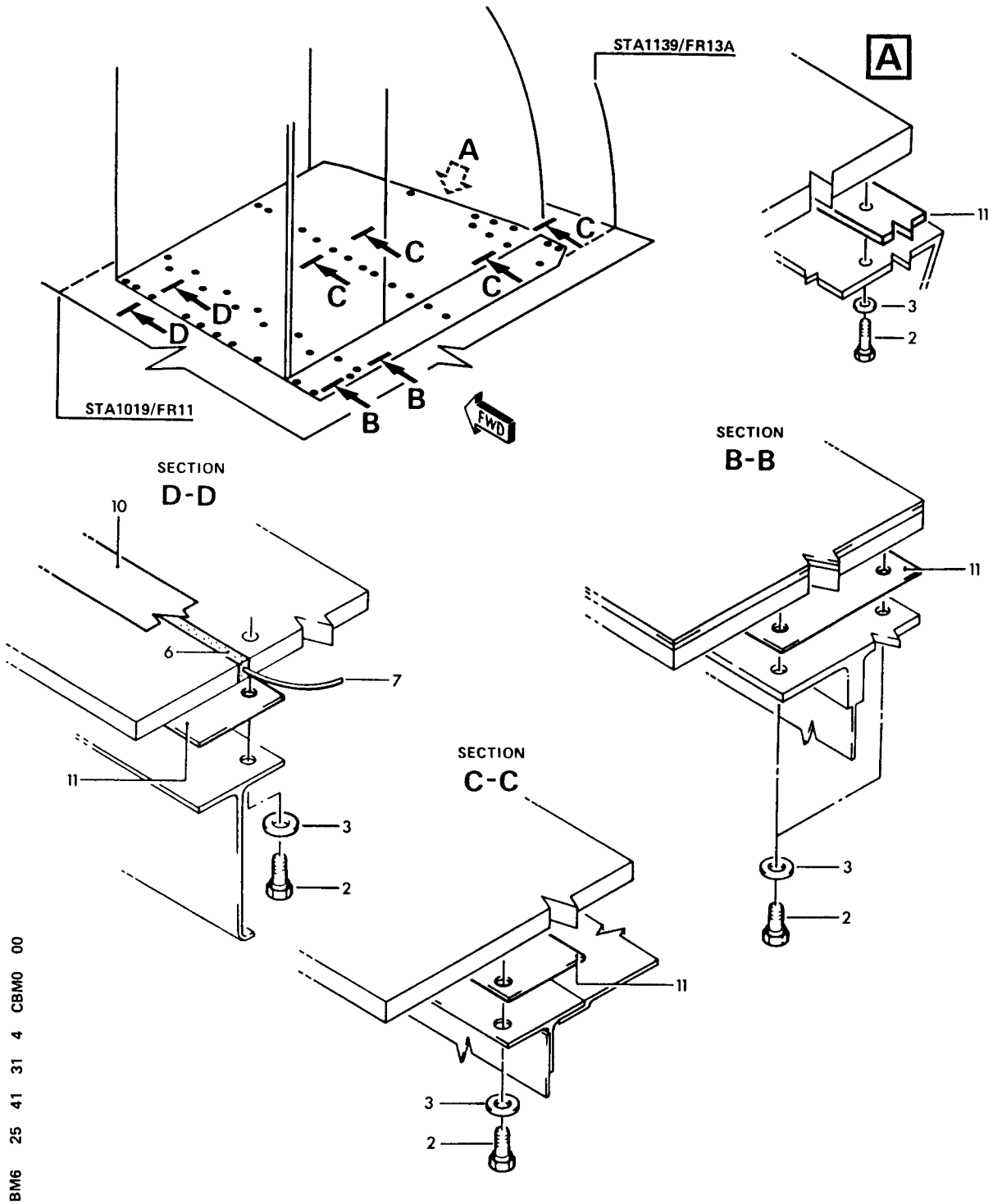

Water/Waste Connections
Figure 402




(1) TYPICAL LOWER ATTACHMENT

NOTE: SECTION G-G IS VALID FOR ALL LOWER ATTACHMENTS

Lower Attachments
Figure 403




Lavatory Floor Attachments
Figure 404

(f)Remove bolts (4) and washers (5).
(4)Remove lavatory floor attachments.
(a)From avionics compartment, remove bolts (2) and washers (3).
(5)Remove lavatory assembly.
(a)Release sealant from gaps between lavatory floor and cabin floor by pulling embedded cord (7).
WARNING : LAVATORY WEIGHS APPROX. 106 kg (234 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(b)Lift and slide lavatory assembly clear.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(3)Make certain that bushings and plates or bushings or plates in lavatory area in correct position.

D. Installation
(1)Preparation of Lavatory Area and Components for Installation.
(Ref. Fig. 403, 404)
(a)Visually inspect structure for damage and corrosion.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(b)Remove all traces of old sealant, using cleaning agent (Mat. No. 11-003) and nonmetallic scraper.
(c)Inspect and if necessary replace tape strips (11) (Mat. No. 08-005).
NOTE : Tape strips (11) are 2.0 mm (0.08 in.) and 4.0mm (0.16 in.) in thickness respectively.
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Position lavatory assembly.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.
(3)Install lower attachments.
NOTE : Do not tighten fasteners at this stage.
(a)Apply Common Grease (Mat. No. 04-001) on the threads of bolts (4).
(b)Install bolts (4) and washers (5), do not tighten at this stage.
(c)In avionics compartment, install bolts (2) and washers (3).
(4)At this stage tighten all fasteners.
(5)Install upper connections.
(Ref. Fig. 401)
(a)Install bolt (3), washers (4) and (5) to structure support.
(b)Connect hose (7) with clamp (6).
(c)Install brackets (18), complete with duct (19) using screws (16) and washers (17).
(d)Install hose (9) using clamp (8) to duct (19).
(e)Install hose (11) with clamps (10).
(f)If clamp (14) removed, secure hose (11) in lavatory surrounding area using clamp (14), bolt (12) washer (13) and spacer (15).
(6)Connect water/waste connections.

(Ref. Fig. 402)

NOTE : Wrap sealing tape (Mat. No. 05-022) around threads, where hoses and tubes are to be connected.

(a)Apply release agent (Mat. No. 05-013) to floor contact surface of connection plate (18).

(b)Install connection plate (18), using washers (19) and bolts (20).

NOTE : Do not tighten bolts at this stage.

(c)Connect supply line (23).

(d)Connect waste line (21), using clamp (22).

(e)Connect bonding strap (27) using bolt (28), washer (26) and nut (25) (Ref. 20-28-11, P. Block 1).

(f)Connect pipes (1, 5), using new O-rings (2) and install sleeve (4) and clamshell (3).

NOTE : Clamshell closure locks automatically when two halves are snapped together and it cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch.
Axial adjustment 6.35 mm (0.25 in.) minimum, angular misalignment for full coupling ± 4°.

(g)Install clamp (8), bolts (9), washers (7) and nuts (6), if removed.

NOTE : The following steps (g) thru (j) are to be carried out in avionics compartment.

(h)Connect waste line (15) using clamp (14).

(j)Connect supply line (16), position sleeve (17) and bond to connection plate (18), using adhesive compound (Mat. No. 08-025).

(k)Position new O-rings (11) and connect pipe (13) with sleeve (10) and clamshell (12).

(l)At this stage tighten all bolts (20).

(m)Apply sealant (24) (Mat. No. 09-016) to periphery of connection plate (18).

(7)Seal lavatory assembly (Ref. Fig. 403, 404).

(a)Lay length of cord (7) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus, in gap between lavatory floor and surrounding floor panels.

NOTE : When applying sealant, leave approx. 100 mm (4 in.) length of cord exposed.

(b)Apply sealant (6) (Mat. no. 09-016) to fill gap.

NOTE : Do not apply sealant to cord surplus length.

(c)Lay length of cord (7) (Mat. No. 05-016) in loops in each attachment fitting cavity and apply sealant (6) (Mat. No. 09-016).

(d)To prevent corrosion, preserve Lavatory fittings with Storage Preservation (12) (Mat. No. 15-008).

NOTE : Use a brush for greasing the fittings.

(8)Around lavatory assembly, cover sealed gaps with tape (10) (Mat. No. 05-015).

(9)Install nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).

(10)Install threshold (8).

(a)Open the lavatory door.

(b)Apply sealant (6) (Mat. No. 09-016) to underside of threshold (8).

(c)Position threshold (8), coat screws (9) with anti-corrosion component (Mat. No. 05-002) and install.

(d)At both ends of threshold (8) seal gaps, using sealant (6) (Mat. No. 09-016).

(11)Install cover plates (1).
(12)Install smoke detector (Ref. 26-17-11, P. Block 401).
(13)Remove protective caps and install electrical connectors 5893VC-A (1) and 5894VC-A (2).
(14)Replenish potable water system as required (Ref. 12-15-38, P. Block 1).
(15)Pressurize potable water system (Ref. 38-40-00, P. Block 301) and open FWD water system shutoff valve.
(16)Check lavatory water and waste line connections for leaks. Leaks are not permissible.
(17)Install toilet shroud (Ref. 25-45-11, P. Block 401).
(18)Install galley unit (Ref. 25-31-12, P. Block 401).

E. Test
(1)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Carry out operational test of lavatory C interface systems (Ref. 25-40-00, P. Block 501).
(4)Carry out operational test of razor socket (Ref. 25-44-00, P. Block 501).
(5)Carry out operational test of vacuum toilet system (Ref. 38-35-00, P. Block 501).

F. Close-Up
(1)Install utility area ceiling panels (Ref. 25-23-13, P. Block 401).
(2)Install door frame linings (Ref. 25-23-41, P. Block 401).
(3)Install curtain rail and curtains, as required (Ref. 25-26-00, P. Block 1).
(4)Secure lavatory ceiling access cover assembly.
(5)Disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Close water service panel access door (136BR).
(7)Remove circuit breaker safety clips and tags and ensure that all circuit breakers previously opened are closed.
(8)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(9)Close passenger/crew door and remove access platform.

## LAVATORY H - REMOVAL/INSTALLATION

**WARNING** : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reason for the Job

A. Gaining access to aircraft structure.

B. Lavatory replacement or repair.

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 1 m (3 ft.) |
| B. | O-Rings |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Protective Caps |
| E. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| F. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| M. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| N. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| P. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| Q. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |
| Referenced Procedures | |
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-21, P. Block 401 | Upper Sidewall Panels |
| - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-00, P. Block 1 | Floor Covering |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-31-11, P. Block 401 | FWD Galley Unit |
| - 25-32-11, P. Block 401 | Center Galley Unit |
| - 25-32-12, P. Block 401 | Center Galley Unit |
| - 25-32-14, P. Block 401 | Center Galley Unit (Outboard) |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |
| - 25-45-11, P. Block 401 | Toilet Shroud |

- 26-17-11, P. Block 401 Smoke Detector
- 38-35-00, P. Block 501 Vacuum Toilet System
- 38-40-00, P. Block 301 Air Supply

3. Procedure

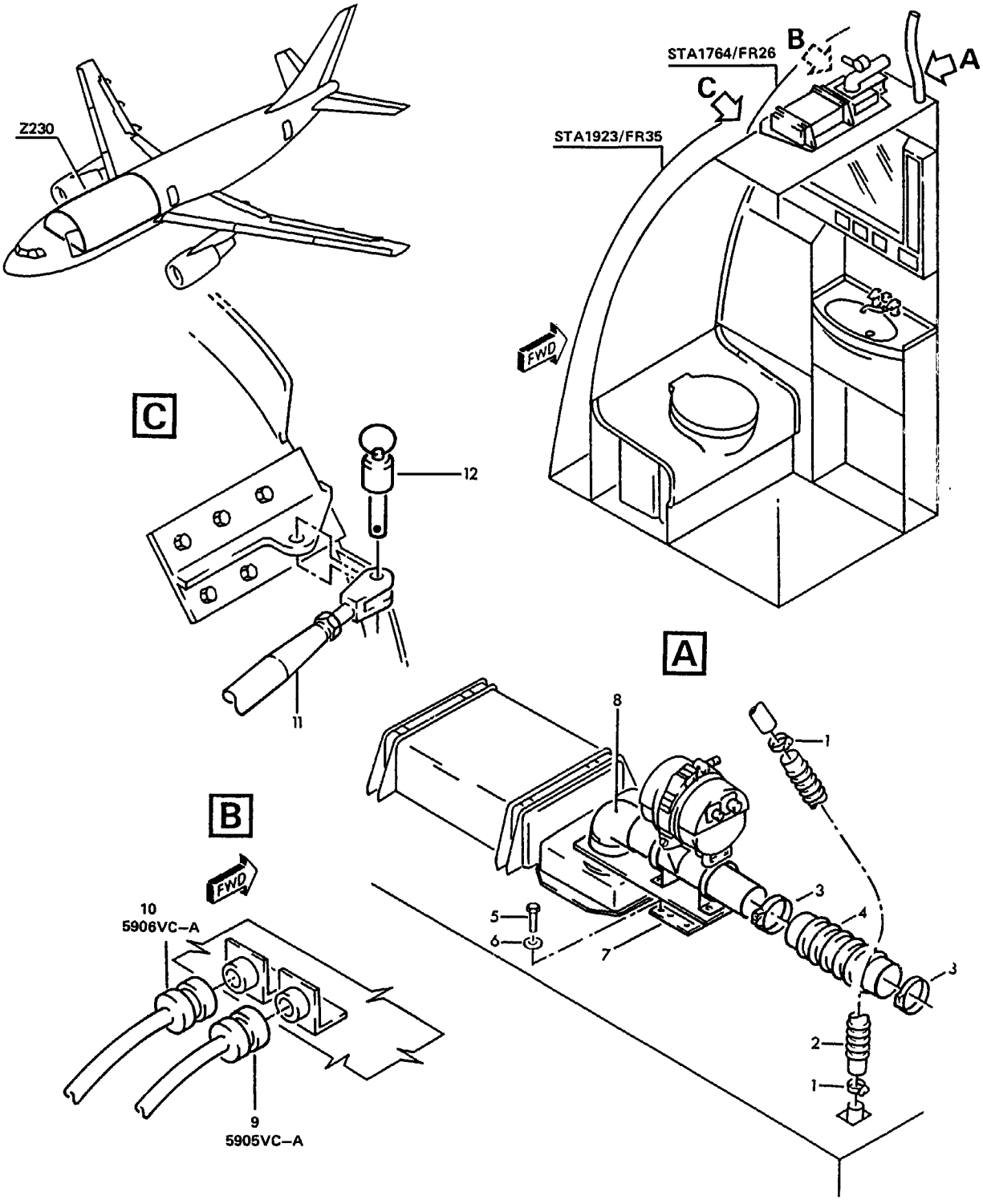
A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COMP-PASSENGER ADDRESS F/C | 5RY | B15 |
| 22VU | PASSENGER OXYGEN CTL AND WARN | 1WR | H24 |
| 22VU | EMER LT-TOILETS | 1WL | E26 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGNS-SEAT BELTS/RETURN | 29WJ | P82 |
| 800VU | CALL SYSTEM/LAVATORY | 4LN | E12 |
| 800VU | CALL SYSTEM/TEST | 3LN | E10 |
| 800VU | CALL SYSTEM/TEST | 5LN | E11 |
| 800VU | LAVATORY FWD & MID/LIGHT | 1LQ | G 2 |
| 800VU | LAVATORY FWD & MID//OCCUPIED | 1WJ | G 4 |
| 800VU | LAVATORY FWD & MID/SHAVER SOCKET | 1MT | G 6 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 1MB | G 7 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 23MB | G 8 |
| 811VU | VACUUM BLOWER/LH | 110MG | C 5 |

(2)Remove passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(3)Remove carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(4)Remove nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).
(5)Remove curtain rails from lavatory (if fitted), (Ref. 25-26-00, P. Block 1).
(6)Adjacent to lavatory front wall, remove the following:
(a)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(7)Remove galley units if fitted (Ref. 25-31-13, P. Block 401, 25-32-11, P. Block 401, 25-32-12, P. Block 401 and 25-32-14, P. Block 401).
(8)Relieve water system pressure.
(a)Position access platform.
(b)Open water service panel access door 136BR.
(c)Turn fill/overflow and drain valve control handle to position **DRAIN** and pull.
NOTE : Air pressure will escape via overflow port.
(d)Turn fill/overflow and drain valve control handle until locked in position **NORMAL**.
(9)Drain and clean waste tank (Ref. 12-16-38, P. Block 1).

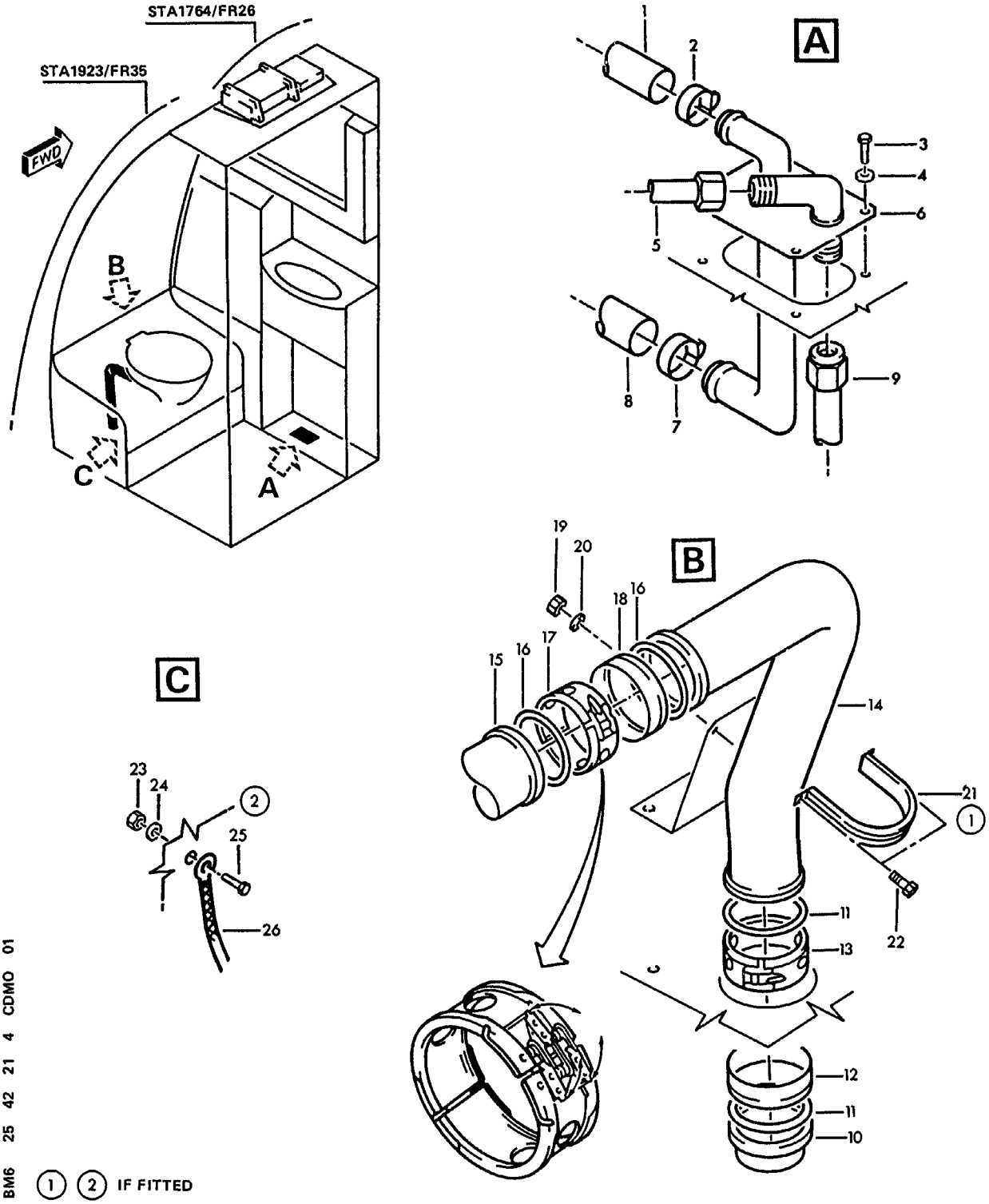
(10)In lavatory, release fasteners and open ceiling access panel.
(11)Remove smoke detector (Ref. 26-17-11, P. Block 401).
(12)Remove toilet shroud (Ref. 25-45-11, P. Block 401).

B. Removal
(Ref. Fig. 401)
(1)Between STA1711/FR25 and STA1764/FR26 disconnect electrical connectors 5905VC-A (9) and 5906VC-A (10) and fit protective caps.
(2)Remove upper connections.
(a)Remove clamps (1) and disconnect hose (2).
(b)Remove clamps (3) and disconnect hose (4). Remove screws (5), washers (6) and bracket (7) complete with hose (8).
(c)Remove pip pin (12) and disconnect tie-rod (11).
(e)Secure tie-rod (11) to aircraft structure.
(3)Disconnect water/waste connections (Ref. Fig. 402).
NOTE : Steps (a) thru (e) are to be carried out in forward cargo compartment and steps (f) thru (m) in lavatory.
(a)In forward cargo compartment, remove ceiling panels 131DC and 131EC.
(b)Remove clamp (7) and disconnect waste line (8).
(c)Disconnect supply line (9).
(d)Release clamshell (13) and slide over pipe (10).
NOTE : Quick disconnect action of the clamshell simplifies and facilitates assembly and removal by one hand. All three latch pawls must be lifted simultaneously to disengage the latch.
(e)Remove O-rings (11), sleeve (12) and disconnect pipe (10). Discard O-rings (11).
(f)Remove bolts (22), washers (20), nuts (19) and clamp (21), if fitted.
(g)Remove nuts (23), washers (24), bolt (26) and disconnect bonding strap (27), if fitted.
(h)Release clamshell (17) and slide over pipe (14).
(j)Remove O-rings (16), sleeve (18) and disconnect pipes (15, 14). Discard O-rings (16).
(k)Disconnect supply line (5).
(l)Remove clamp (2) and disconnect hose (1).
(m)Remove bolts (3), washers (4) and connection plate (6).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(n)Remove sealant from plate (6) using cleaning agent (Mat. No. 11-003).
(4)Remove lower attachments.
(Ref. Fig. 403)
(Ref. Fig. 404)
(a)Remove screws (8) and threshold (7).
(b)Remove cover plates (1).
NOTE : Use a suitable tool for removing the cover plates.
(c)At lavatory base, remove tape (4) and screws (9).
(d)Remove protection wax (14).
(e)Release sealant (5) at lower attach points by pulling embedded cord (6).
(f)Remove bolts (2) and washers (3).
(g)In forward cargo compartment, remove bolts (13) and washers (12).
(5)Remove lavatory assembly.
(a)Release sealant (5) from gaps between lavatory floor and cabin floor by

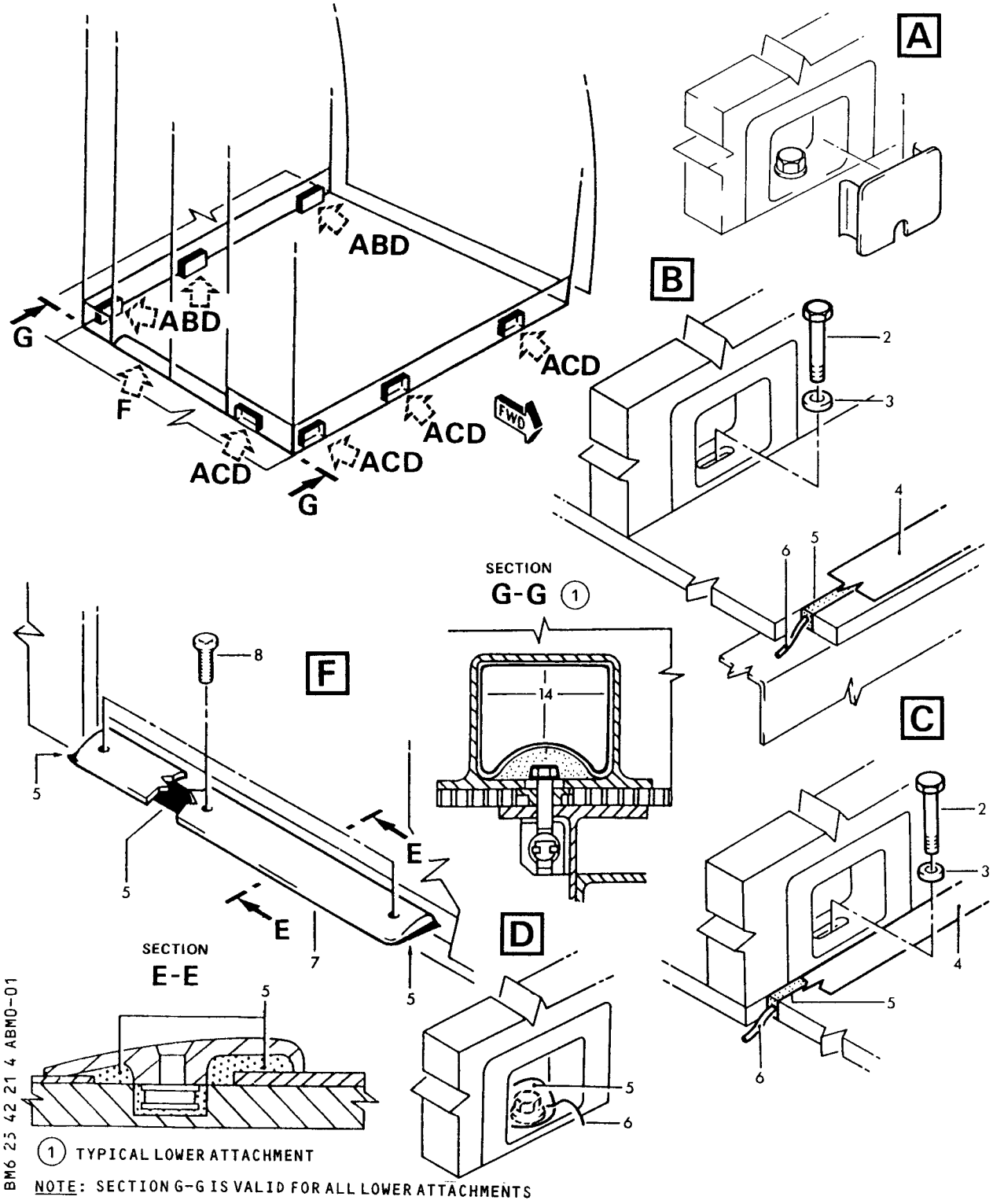



BM6 25 42 21 4 EAMO 00

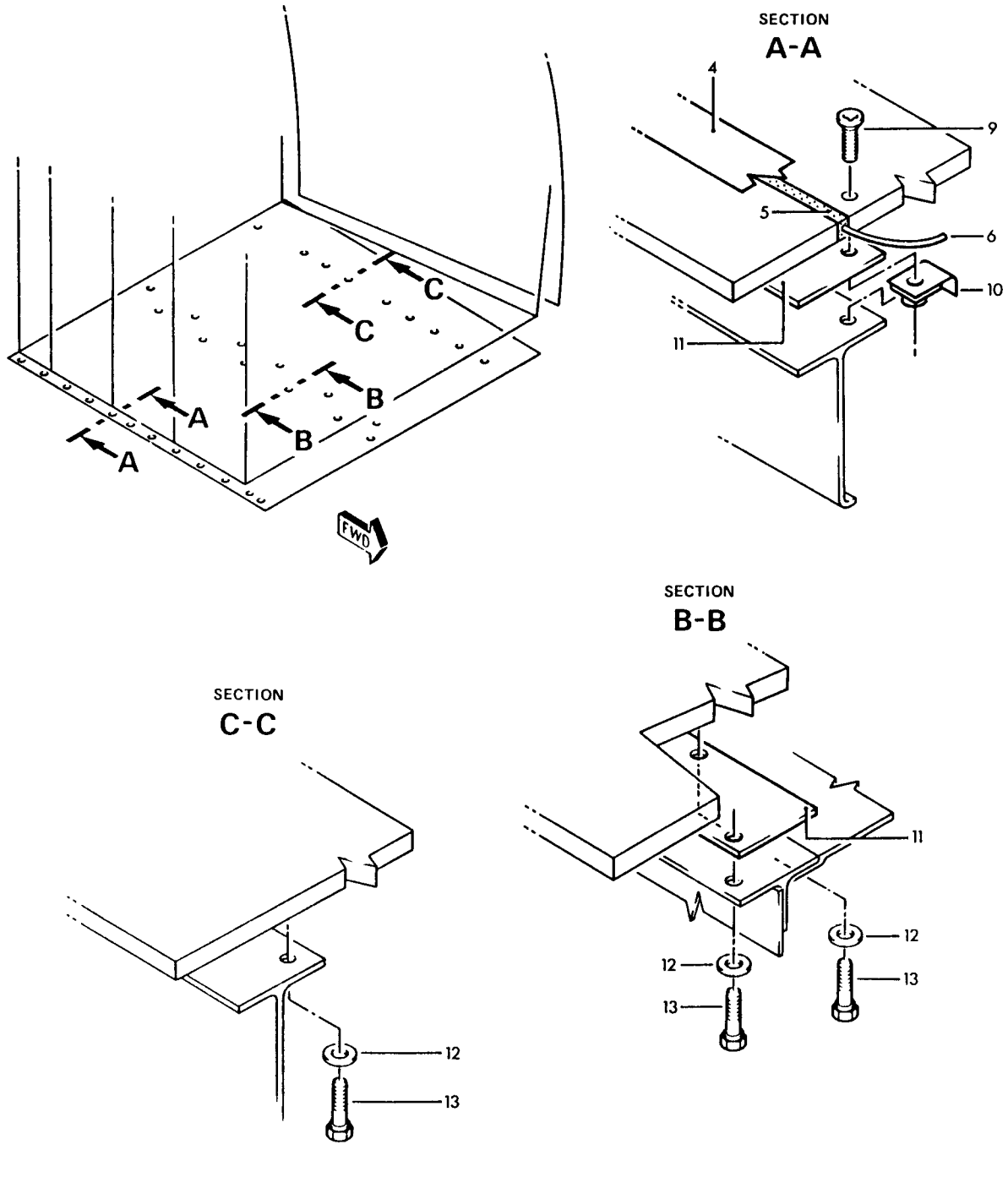
Upper Connections
Figure 401




Water/Waste Connections
Figure 402




Lower Attachments
Figure 403




Lavatory Floor Attachments
Figure 404

pulling embedded cord (6).
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(b)Lift and slide lavatory clear.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Prepare lavatory area for installation (Ref. Fig. 403, 404).
(a)Visually inspect structure for damage and corrosion.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(b)Remove all traces of old sealant, using cleaning agent (Mat. No. 11-003).
(c)Check for correct position and condition of clipnuts (10) located on structure.
(d)Inspect and, if necessary, replace tape strips (11) (Mat. No. 08-005).
NOTE : Tape strips (11) are to be 2.0 mm (0.08 in.) in thickness and installed on aircraft structure.
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Position lavatory assembly.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.
(3)Install lower attachments (Ref. Fig. 403, 404).
NOTE : Do not tighten bolts and screws at this stage.
(a)Install bolts (2) and washers (3).
(b)Apply Common Grease (Mat. No. 04-001) on the threads of bolts (2).
(c)In forward cargo compartment secure lavatory assembly to floor structure, using bolts (13) and washers (12).
(d)Install screws (9).
(4)Tighten all bolts and screws.
(5)Install upper connections (Ref. Fig. 401).
(a)Release tie-rod (11) from aircraft structure and connect tie-rod (11) using cotter-pin (12), adjust tie-rod (11), if necessary.
(b)Install bracket (7), complete with hose (8), using screws (5) and washers (6).
(c)Install hose (2) using clamps (1).
(d)Install hose (4) using clamps (3).
(6)Connect water/waste connections (Ref. Fig. 402).
NOTE : Wrap sealing tape (Mat. No. 05-022) around threads where hoses and tubes are to be connected.
(a)Apply release agent (Mat. No. 05-013) to floor contact surfaces of connection plate (6).
(b)Install connection plate (6), using washers (4) and bolts (3).
NOTE : Do not tighten bolts at this stage.
(c)Connect supply line (5).

(d)Connect waste line assembly (1), using clamp (2).
(e)Install pipe (14).
(f)Install clamp (21), if removed, using bolts (22), washers (20) and nuts (19).
(g)Connect bonding strap (26), if removed, using bolt (25), washer (24) and nut (23) (Ref. 20-28-11, P. Block 1). Position new O-rings (16) and connect pipes (14, 15) with sleeve (18) and clamshell (17).
NOTE : Clamshell closure locks automatically when two halves are snapped together and it cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch. Axial adjustment 6.35 mm (0.25 in.) minimum angular misalignment for full coupling ±4°.
NOTE: Wrap sealing tape (mat. No. 05-022) around threads where hoses forward cargo compartment.
(h)Connect waste line (8), using clamp (7).
(j)Connect supply line (9).
(k)Position new O-rings (11) and connect pipes (10, 14) with sleeve (12) and clamshell (13).
(l)At this stage tighten all bolts (3).
(m)Seal contour edges of connection plate (6), with sealant (Mat. No. 09-016).
(7)Seal lavatory assembly (Ref. Fig. 403, 404).
(a)Lay length of cord (6) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus in gap between lavatory floor and surrounding floor panels.
(b)Apply sealant (5) (Mat. No. 09-016) to fill gap.
NOTE : Do not apply sealant to cord surplus length.
(c)Cover sealant with tape (4) (Mat. No. 05-015).
(d)Lay length of cord (6) (Mat. No. 05-016) in loops in each attach fitting cavity and apply sealant (5) (Mat. No. 09-016).
NOTE : When applying sealant, leave approx. 100 mm (4 in.) length of cord exposed.
(e)To prevent corrosion, preserve Lavatory fittings with Storage Preservation (14) (Mat. No. 15-008).
NOTE : Use a brush for greasing the fittings.
(8)Install nontextile floor covering as required (Ref. 25-28-12, P. Block 401).
(9)Install carpet floor covering as required (Ref. 25-28-00, P. Block 1).
(10)Install threshold (7) (Ref. Fig. 403).
(a)Apply sealant (5) (Mat. No. 09-016) to underside of threshold (7).
(b)Position threshold, coat screws (8) with thread sealant (Mat. No. 05-002) and install.
(c)At both ends of threshold, seal gaps using sealant (5) (Mat. No. 09-016).
(11)Install cover plates (1) (Ref. Fig. 403).
(12)Remove protective caps and connect electrical connectors 5905VC-A (9) and 5906VC-A (10) (Ref. Fig. 401).
(13)Replenish potable water system as required (Ref. 12-15-38, P. Block 1).
(14)Pressurize potable water system (Ref. 38-40-00, P. Block 301) and open FWD water system shutoff valves.
(15)Replenish waste tank (Ref. 12-16-38, P. Block 1).
(16)Check all lavatory water and waste line connection for leaks. Leaks are

not permissible.
(17)Install toilet shroud (Ref. 25-45-11, P. Block 401).
(18)Close lavatory ceiling access panel and secure fasteners.
(19)Install galley units, if removed (Ref. 25-31-13, P. Block 401, 25-32-11, P. Block 401, 25-32-12, P. Block 401 and 25-32-14, P. Block 401).
(20)In forward cargo compartment, install ceiling panel.

E. Test
(1)Connect electrical ground power unit and energized aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Carry out operational test of lavatory H interface system (Ref. 25-40-00, P. Block 501).
(4)Carry out operational test of razor socket (Ref. 25-44-00, P. Block 501).
(5)Carry out operational test of vacuum toilet system (Ref. 38-35-00, P. Block 501).

F. Close-Up
(1)Adjacent to lavatory front wall, install the following:
(a)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(2)Install carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1)
(3)Install passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(4)Install curtain rails, as required (Ref. 25-26-00, P. Block 1).
(5)Close water service panel access door 136BR.
(6)Remove access platform.
(7)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.

## LAVATORY K - REMOVAL/INSTALLATION

**WARNING** : LAVATORY WEIGHS APPROX. 100 kg (220 lb.)
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reason for the Job

A. Gaining access to aircraft structure.

B. Lavatory replacement or repair.

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 1 m (3 ft.) |
| B. | O-Rings |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Protective Caps |
| E. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| F. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| M. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| N. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| P. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| Q. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-21, P. Block 401 | Upper Sidewall Panels |
| - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-00, P. Block 1 | Floor Covering |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-31-11, P. Block 401 | FWD Galley Unit |
| - 25-32-11, P. Block 401 | Center Galley Unit |
| - 25-32-12, P. Block 401 | Center Galley Unit |
| - 25-32-14, P. Block 401 | Center Galley Unit (Outboard) |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |

- 25-45-11, P. Block 401 Toilet Shroud
- 26-17-11, P. Block 401 Smoke Detector
- 38-35-00, P. Block 501 Vacuum Toilet System
- 38-40-00, P. Block 301 Air Supply

3. Procedure

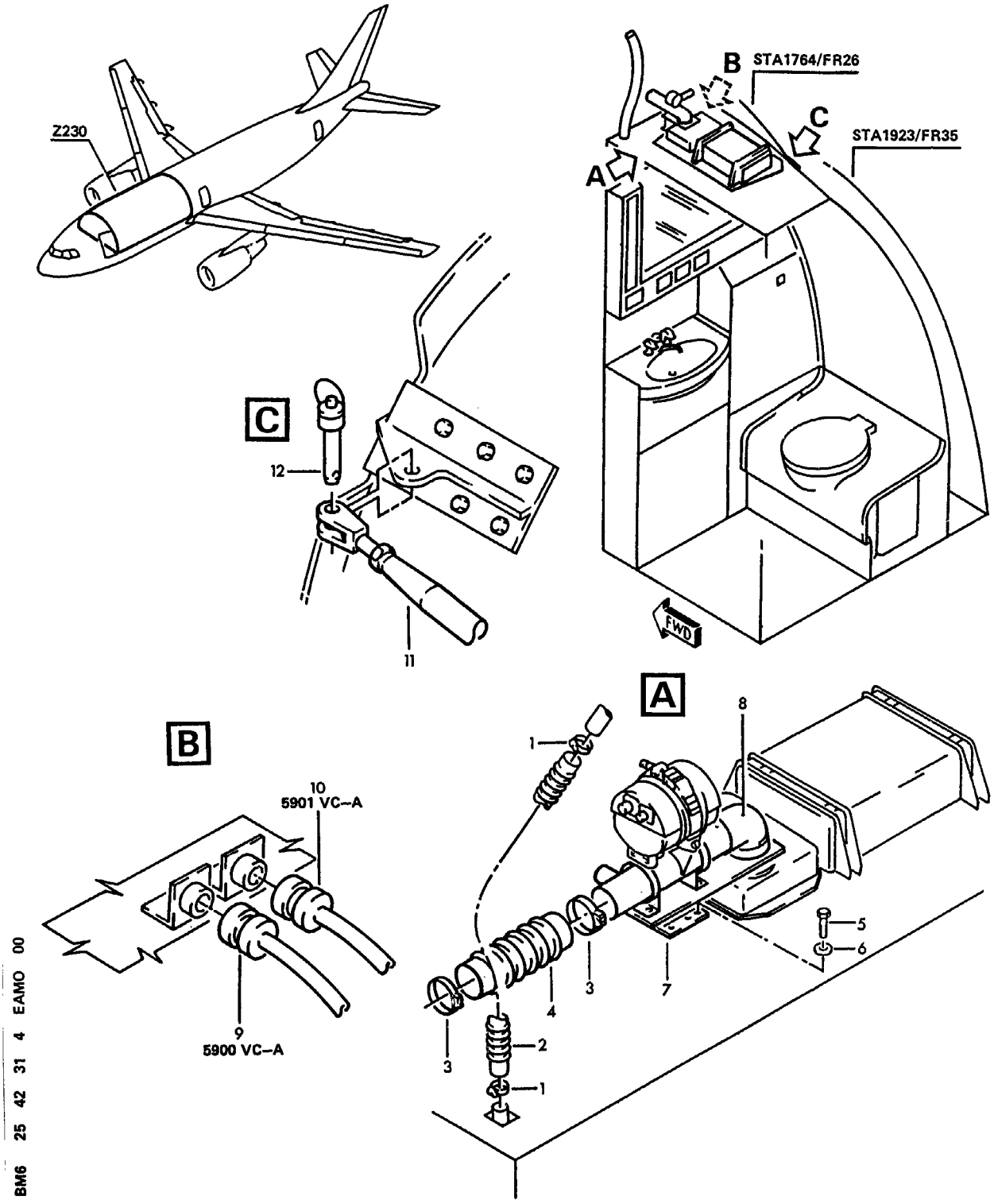
A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COMP-PASSENGER ADDRESS F/C | 5RY | B15 |
| 22VU | PASSENGER OXYGEN CTL AND WARN | 1WR | H24 |
| 22VU | EMER LT-TOILETS | 1WL | E26 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGNS-SEAT BELTS/RETURN | 29WJ | P82 |
| 800VU | CALL SYSTEM/TEST | 3LN | E10 |
| 800VU | CALL SYSTEM/TEST | 5LN | E11 |
| 800VU | CALL SYSTEM/LAVATORY | 4LN | E12 |
| 800VU | LAVATORY FWD & MID/LIGHT | 1LQ | G 2 |
| 800VU | LAVATORY FWD & MID//OCCUPIED | 1WJ | G 4 |
| 800VU | LAVATORY FWD & MID/SHAVER SOCKET | 1MT | G 6 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 1MB | G 7 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 23MB | G 8 |
| 811VU | VACUUM BLOWER/RH | 10MG | C 8 |

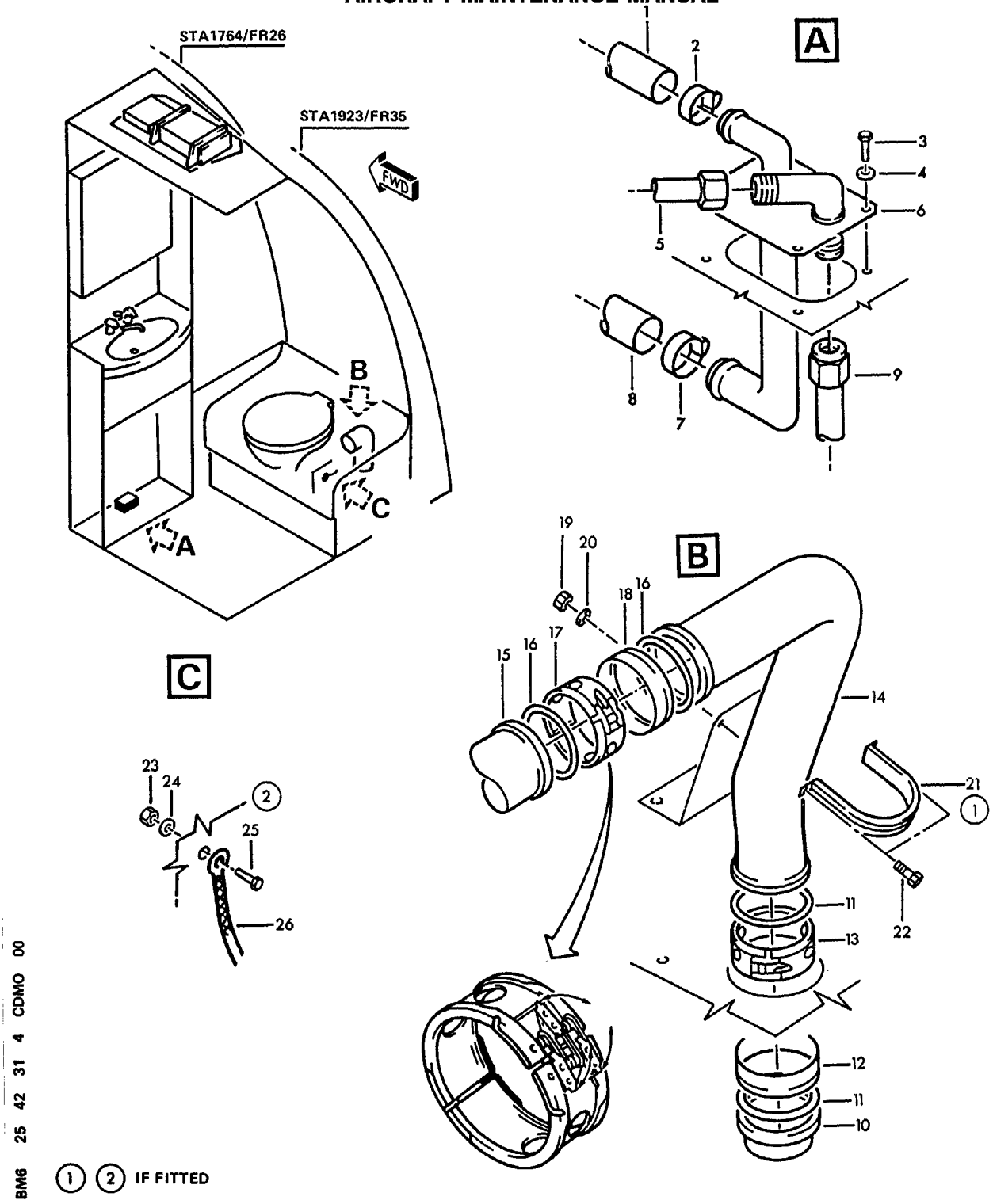
(2)Remove passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(3)Remove carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(4)Remove nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).
(5)Remove curtain rails from lavatory (if fitted), (Ref. 25-26-00, P. Block 1).
(6)Adjacent to lavatory front wall, remove the following:
(a)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(7)Remove galley units if fitted (Ref. 25-31-13, P. Block 401, 25-32-11, P. Block 401, 25-32-12, P. Block 401 and 25-32-14, P. Block 401).
(8)Relieve water system pressure.
(a)Position access platform.
(b)Open water service panel access door 136BR.
(c)Turn fill/overflow and drain valve control handle to position **DRAIN** and pull.
NOTE : Air pressure will escape via overflow port.
(d)Turn fill/overflow and drain valve control handle until locked in position **NORMAL**.

(9)Drain and clean waste tank (Ref. 12-16-38, P. Block 1).
(10)In lavatory, release fasteners and open ceiling access panel.
(11)Remove smoke detector (Ref. 26-17-11, P. Block 401).
(12)Remove toilet shroud (Ref. 25-45-11, P. Block 401).

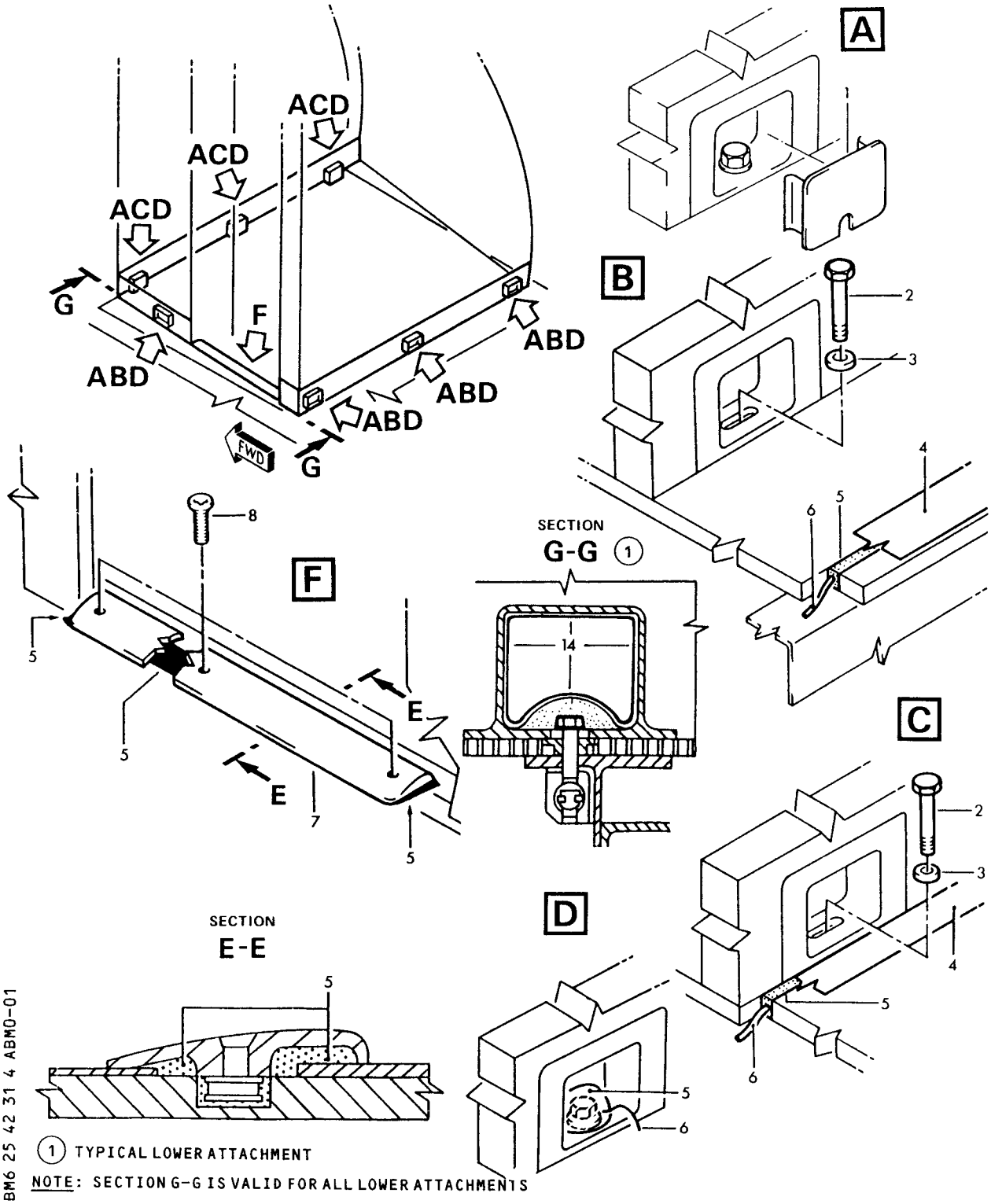
B. Removal
(Ref. Fig. 401)
(1)Between STA1711/FR25 and STA1764/FR26 disconnect electrical connectors 5900VC-A (9) and 5901VC-A (10) and fit protective caps.
(2)Remove upper connections.
(a)Release clamps (1) and remove hose (2).
(b)Release clamps (3) and disconnect hose (4).
(c)Remove screws (5), washers (6) and bracket (7) complete with duct (8).
(d)Remove pip pin (12) and disconnect tie-rod (11).
(e)Secure tie-rod (11) to the aircraft structure.
(3)Disconnect water/waste connections (Ref. Fig. 402).
NOTE : Steps (a) thru (e) are to be carried out in forward cargo compartment and steps (l) thru (m) in lavatory.
(a)In forward cargo compartment, remove ceiling panels 131DC and 131EC.
(b)Remove clamp (7) and disconnect waste line (8).
(c)Disconnect supply line (9).
(d)Release clamshell (13) and slide over pipe (10).
NOTE : Quick disconnect action of the clamshell simplifies and facilitates assembly and removal by one hand. All three latch pawls must be lifted simultaneously to disengage the latch.
(e)Remove O-rings (11), sleeve (12) and disconnect pipe (10).
Discard O-rings (11).
(f)Remove nut (19), washer (20), bolt (22) and disconnect bonding clamp (21), if fitted.
(g)Release clamshell (17) and slide over pipe (14).
(h)Remove O-rings (16), sleeve (18) and disconnect pipes (15, 14).
Discard O-rings (16).
(j)Disconnect supply line (5).
(k)Remove clamp (2) and disconnect hose (1).
(l)Remove bolts (3), washers (4) and connection plate (6).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(m)Remove sealant from plate (6) using cleaning agent (Mat. No. 11-003).
(4)Remove lower attachments.
(Ref. Fig. 403)
(Ref. Fig. 404)
(a)Remove screws (8) and threshold (7).
(b)Remove cover plates (1).
NOTE : Use a suitable tool for removing the cover plates.
(c)At lavatory base, remove tape (4) and screws (9).
(d)Remove protection wax (14).
(e)Release sealant (5) at lower attachment points by pulling embedded cord (6).
(f)Remove bolts (2) and washers (3).
(g)In FWD cargo compartment, remove bolts (13) and washers (12).
(5)Remove lavatory assembly.
(a)Release sealant (5) from gaps between lavatory floor and cabin floor by



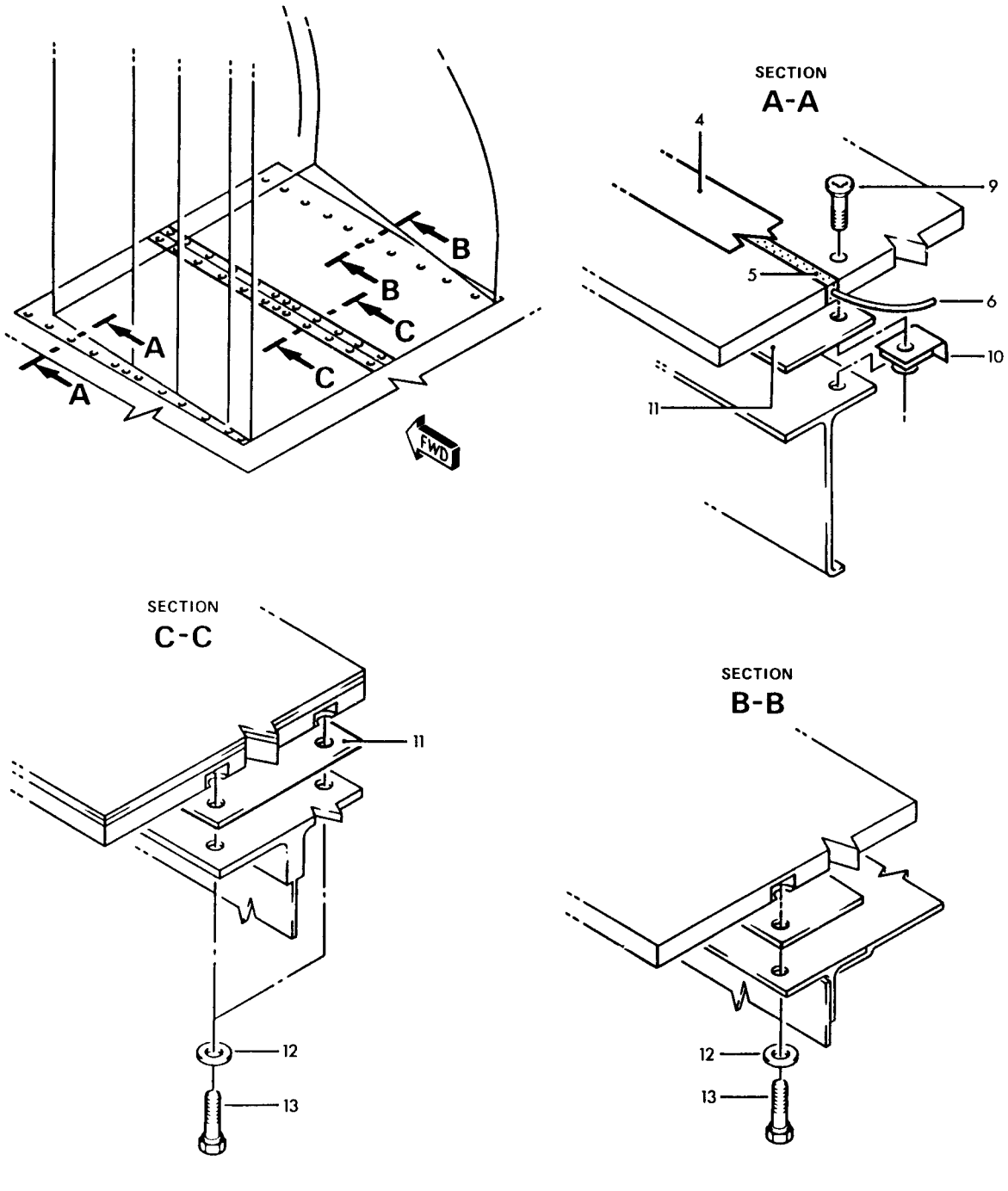

Upper Connections
Figure 401




Water/Waste Connections
Figure 402




Lower Attachments
Figure 403




Lavatory Floor Attachments
Figure 404

pulling embedded cord (6).
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(b)Lift and slide lavatory clear.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Prepare lavatory area for installation (Ref. Fig. 403, 404).
(a)Visually inspect structure for damage and corrosion.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(b)Remove all traces of old sealant, using cleaning agent (Mat. No. 11-003).
(c)Check for correct position and condition of clipnuts (10) located on structure.
(d)Inspect, and if necessary, replace tape strips (11) (Mat. No. 08-005).
NOTE : Tape strips (11) are to be 2.0mm (0.08in.) in thickness and installed on aircraft structure.
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Position lavatory assembly.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.
(3)Install lower attachments (Ref. Fig. 403, 404).
NOTE : Do not tighten fasteners at this stage.
(a)Install bolts (2) and washers (3).
(b)Apply Common Grease (Mat. No. 04-001) on the threads of bolts (2).
(c)In forward cargo compartment secure lavatory assembly to floor structure, using bolts (13) and washers (12).
(d)Install screws (9).
(4)At this stage tighten all fasteners.
(5)Install upper connections (Ref. Fig. 401).
(a)Release tie-rod (11) from aircraft structure and connect tie-rod (11) using pip-pin (12). Aadjust tie-rod (11) if necessary.
(b)Install bracket (7), complete with hose (4) and duct (8), using screws (5) and washers (6).
(c)Install hose (2) using clamps (1).
(d)Install hose (4) using clamps (3).
(6)Connect water/waste connections (Ref. Fig. 402).
NOTE : Wrap sealing tape (Mat. No. 05-022) around threads where hoses and tubes are to be connected.
(a)Apply release agent (Mat. No. 05-013) to floor contact surfaces of connection plate (6).
(b)Install connection plate (6), using washers (4) and bolts (3).
NOTE : Do not tighten bolts at this stage.
(m)Apply sealant (Mat. No. 09-016) to periphery of connection

plate (6).
(c)Connect supply line (5).
(d)Connect waste line assembly (1), using clamp (2).
(e)Install pipe (14).
(f)Install clamp (21), if removed, using bolts (22), washers (20) and nuts (19).
(g)Connect bonding strap (26), if removed, using bolt (25), washer (24) and nut (23) (Ref. 20-28-11, P. Block 1). Position new O-rings (16) and connect pipes (14, 15) with sleeve (18) and clamshell (17).
NOTE : Clamshell closure locks automatically when two halves are snapped together and it cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch. Axial adjustment 6.35 mm (0.25 in.) minimum angular misalignment for full coupling ±4°.
NOTE : Wrap sealing tape (mat. No. 05-022) around threads where hoses forward cargo compartment.
(h)Connect waste line (8), using clamp (7).
(j)Connect supply line (9).
(k)Position new O-rings (11) and connect pipes (10, 14) with sleeve (12) and clamshell (13).
(l)At this stage tighten all bolts (3).
(m)Apply sealant (Mat. No. 09-016) to periphery of connection plate (6).
(7)Seal lavatory assembly (Ref. Fig. 403, 404).
(a)Lay length of cord (6) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus in gap between lavatory floor and surrounding floor panels.
(b)Apply sealant (5) (Mat. No. 09-016) to fill gap.
NOTE : Do not apply sealant to cord surplus length.
(c)Cover sealant gaps with tape (4) (Mat. No. 05-015).
(d)Lay length of cord (6) (Mat. No. 05-016) in loops in each attach fitting cavity and apply sealant (5) (Mat. No. 09-016)
NOTE : When applying sealant, leave approx. 100 mm (4 in.) length of cord exposed.
(e)To prevent corrosion, preserve Lavatory fittings with Storage Preservation (14) (Mat. No. 15-008).
NOTE : Use a brush for greasing the fittings.
(8)Install nontextile floor covering as required (Ref. 25-28-12, P. Block 401).
(9)Install carpet floor covering as required (Ref. 25-28-00, P. Block 1).
(10)Install threshold (7) (Ref. Fig. 403).
(a)Apply sealant (5) (Mat. No. 09-016) to underside of threshold (7).
(b)Position threshold, coat screws (8) with thread sealant (Mat. No. 05-002) and install.
(c)At both ends of threshold, seal gaps, using sealant (5) (Mat. No. 09-016).
(11)Install cover plates (1).
(12)Remove protective caps and connect electrical connectors 5900VC-A (9) and 5901VC-A (10) (Ref. Fig. 401).
(13)Replenish potable water system, as required (Ref. 12-15-38, P. Block 1).
(14)Pressurize potable water system (Ref. 38-40-00, P. Block 301).
(15)Replenish waste tank (Ref. 12-16-38, P. Block 1).

(16)Check all lavatory water and waste line connections for leaks. Leaks are not permissible.
(17)Install toilet shroud (Ref. 25-45-11, P. Block 401).
(18)Close lavatory ceiling access panel and secure fasteners.
(19)Install galley units, if removed (Ref. 25-31-13, P. Block 401, 25-32-11, P. Block 401, 25-32-12, P. Block 401 and 25-32-14, P. Block 401).
(20)In forward cargo compartment, install ceiling panels.

E. Test
(1)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Carry out operational test of lavatory K interface system (Ref. 25-40-00, P. Block 501).
(4)Carry out operational test of razor sockets (Ref. 25-44-00, P. Block 501).

F. Close-Up
(1)Adjacent to lavatory rear wall, install the following:
(a)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(2)Install carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(3)Install coat closet, if removed (Ref. 25-27-12, P. BLock 401).
(4)Install passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(5)Install curtain rails, as required (Ref. 25-26-00, P. Block 1).
(6)Close water service panel access door 136BR.
(7)Remove access platform.
(8)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.

## LAVATORY W - REMOVAL/INSTALLATION

**WARNING** : LAVATORY WEIGHS APPROX. 100 kg (220 lb.)
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reasons for the Job

A. Gaining access to aircraft structure.

B. Lavatory replacement or repair.

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 1 m (3 ft.) |
| B. | O-Rings |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Protective Caps |
| E. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| F. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| M. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| N. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| P. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| Q. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-21, P. Block 401 | Upper Sidewall Panels |
| - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-27-12, P. Block 401 | Coat Closet |
| - 25-27-17, P. Block 401 | Doghouse |
| - 25-28-00, P. Block 1 | Floor Covering |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |
| - 25-45-11, P. Block 401 | Toilet Shroud |

- 26-17-11, P. Block 401 Smoke Detector
- 38-35-00, P. Block 501 Vacuum Toilet System
- 38-40-00, P. Block 301 Air Supply

3. Procedure

A. Job Set-Up

(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COM-PASSENGER ADDRESS F/C | 5RY | B15 |
| 22VU | PASSENGER OXYGEN CTL AND WARN | 1WR | H24 |
| 22VU | EMER LT-TOILETS | 1WL | E26 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGNS-SEAT BELTS/RETURN | 29WJ | P82 |
| 800VU | CALL SYSTEM/LAVATORY | 4LN | E12 |
| 800VU | CALL SYSTEM/TEST | 5LN | E11 |
| 800VU | LAVATORY FWD & MID/LIGHT | 1LQ | G 2 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 1MB | G 7 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 42MB | G 8 |
| 800VU | LAVATORY FWD & MID/SHAVER SOCKET | 1MT | G 6 |
| 800VU | LAVATORY FWD & MID/OCCUPIED | 1WJ | G 4 |
| 811VU | VACUUM BLOWER/RH | 10MG | C 8 |

(2)Remove passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(3)Remove cabin attendant seats (Ref. 25-21-61, P. Block 401).
(4)Remove doghouse (Ref. 25-27-17, P. Block 401).
(5)Remove coat closet (Ref. 25-27-12, P. Block 401).
(6)Remove carpet floor covering in lavatory area (Ref. 25-28-00, P. Block 1).
(7)Remove nontextile floor covering in lavatory area (Ref. 25-28-12, P. Block 401).
(8)Remove curtain rails (if fitted to lavatory) (Ref. 25-26-00, P. Block 1).
(9)Adjacent to lavatory front wall, remove the following:
(a)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(10)Relieve water system pressure.
(a)Position access platform.
(b)Open water service panel access door 136BR.
(c)Turn fill/overflow and drain valve control handle to position **DRAIN** and pull.
NOTE : Air pressure will escape via overflow port.
(d)Turn fill/overflow and drain valve control handle until locked in position **NORMAL**.
(11)In lavatory, release fasteners and open ceiling access panel.
(12)Remove smoke detector (Ref. 26-17-11, P. Block 401).

(13)Remove toilet shroud (Ref. 25-45-11, P. Block 401).

B. Removal

(1)Between STA2241/FR39 and STA2294/FR40/41 disconnect electrical connectors 5920VC-A (1), 5921VC-A (2) and fit protective caps (Ref. Fig. 401).

(2)Remove upper connections (Ref. Fig. 401).

(a)Remove clamps (5) and disconnect hose (6).

(b)Remove clamps (7) and disconnect hose (8).

(c)Remove screws (9), washers (10) and bracket (11) complete with hose (12).

(d)Remove pip pin (3), and disconnect tie-rod (4). (Ref. Fig. 401)

(3)Disconnect water/waste connections (Ref. Fig. 402).

NOTE : Steps (a) thru (f) are to be carried out in forward cargo compartment and steps (g) thru (m) in lavatory.

(a)In forward cargo compartment, remove ceiling panels 132DC and 132EC.

(b)Remove clamp (9) and disconnect waste line (10).

(c)Disconnect supply line (8).

(d)Release clamshell (16) and slide over pipe (18).

NOTE: Quick disconnect action of the clamshell enables assembly and removal by one hand. All three latch pawls must be lifted simultaneously to disengage the latch.

(e)Remove O-rings (15), sleeve (17) and disconnect pipe (18). Discard O-rings (15).

(f)Remove bolts (12), washers (14), nuts (13) and clamp (11), if fitted.

(g)Release clamshell (21) and slide over pipe (23).

(h)Remove O-rings (20), sleeve (22) and disconnect pipes (19,23). Discard O-rings (20).

(j)Disconnect supply line (5).

(k)Remove clamp (2) and disconnect hose (1).

(l)Remove bolts (3), washers (4) and connection plate (6).

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(m)Remove sealant (7) from plates (6) using cleaning (Mat. No. 11-003).

(n)Remove nut (24), washer (25), bolt (27) and disconnect bonding strap (26).

(4)Remove lower attachments (Ref. Fig. 403, 404).

(a)Remove screws (9) and threshold (8).

(b)Remove cover plates (1).

NOTE : Use a suitable tool for removing the cover plates.

(c)At lavatory base, remove tape (4) and screws (10).

(d)Remove protection wax (19).

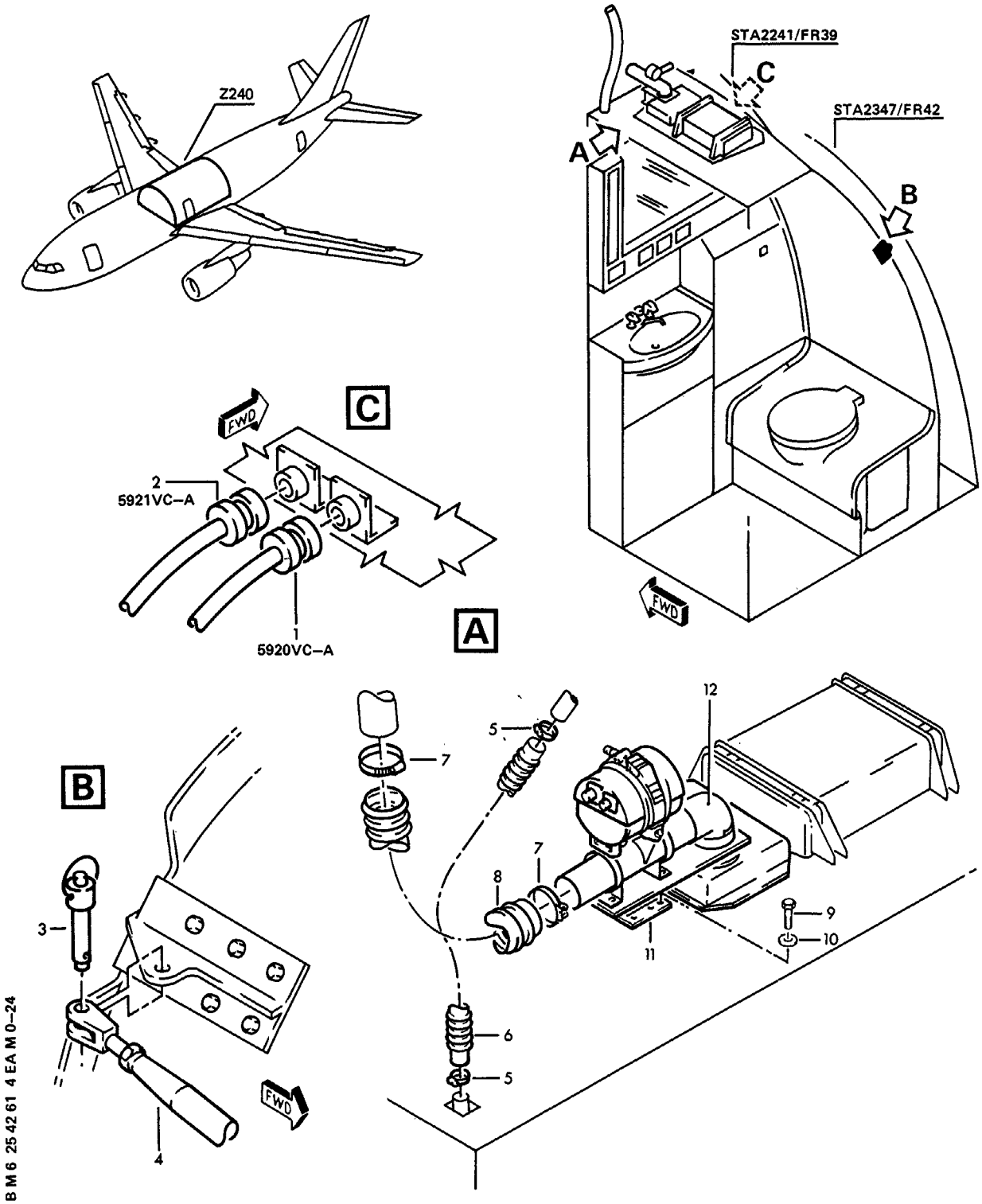
(e)Release sealant (5) at lower attach points by pulling embedded cord (6).

(f)Remove bolts (2) and washers (3).

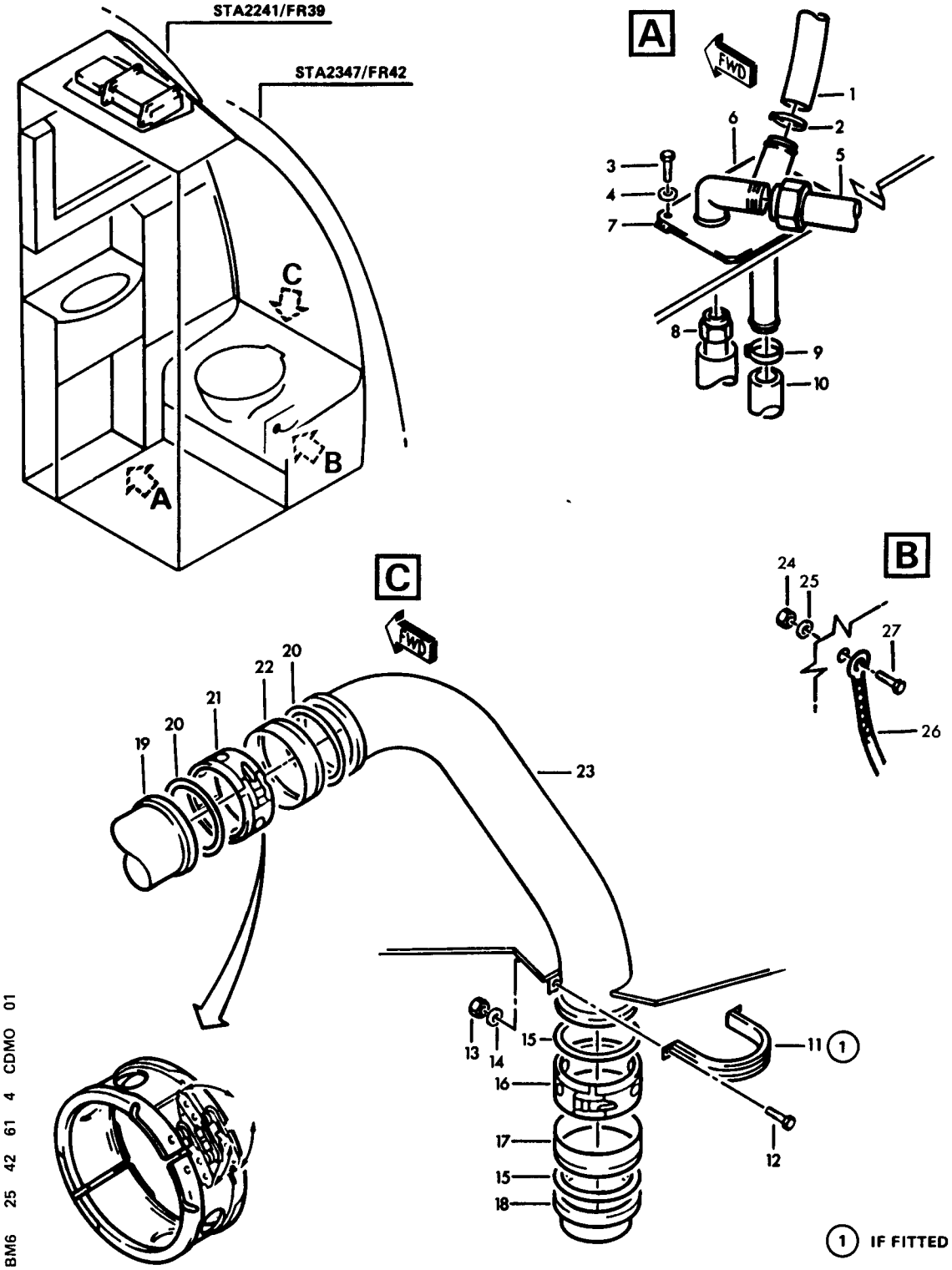
(g)In forward cargo compartment, remove bolts (14) and washers (13).

(5)Remove lavatory assembly (Ref. Fig. 403, 404).

(a)Release sealant (5) from gaps between lavatory floor and cabin floor by pulling embedded cord (6).




Upper Connections
Figure 401

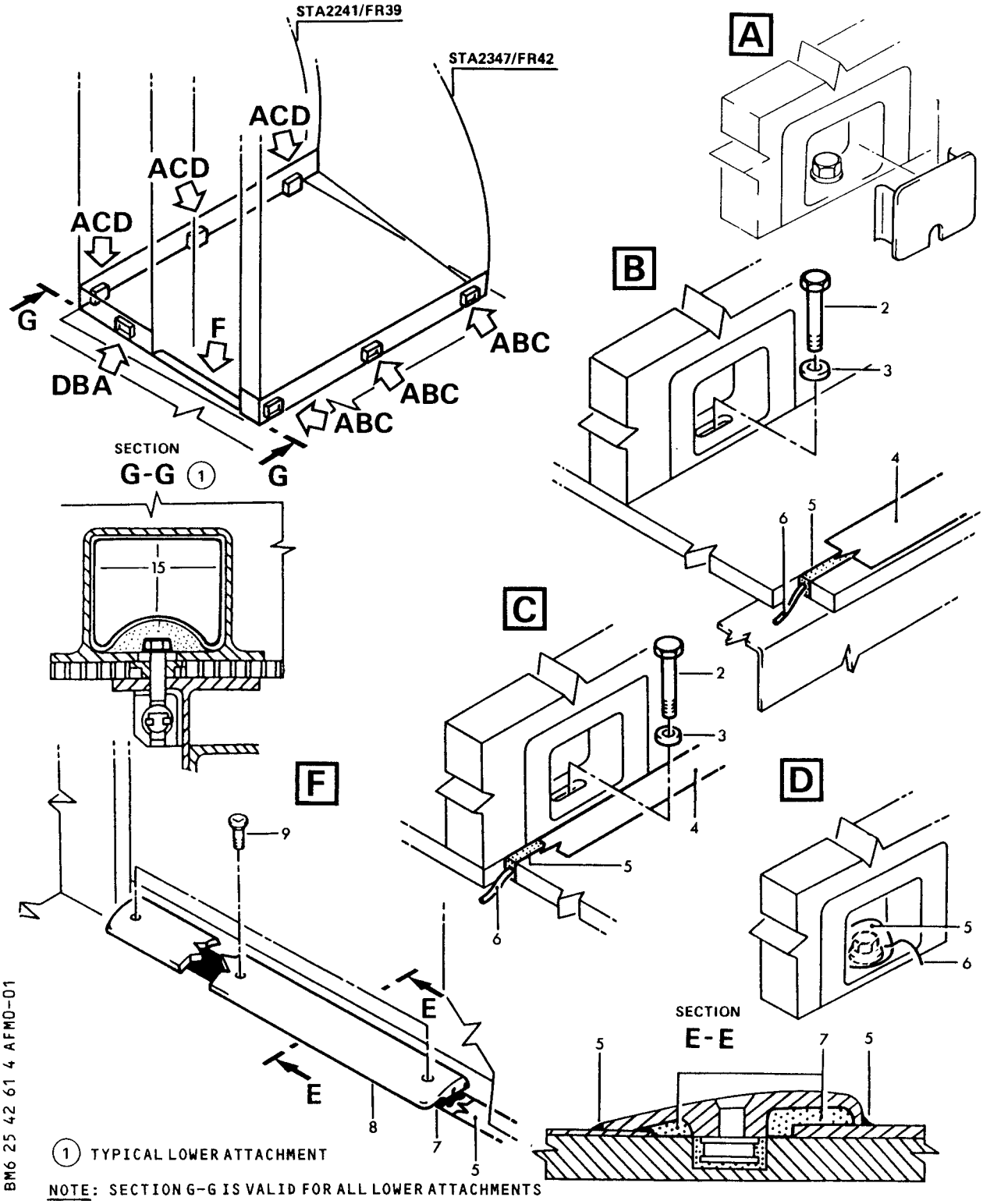



Water/Waste Connections
Figure 402

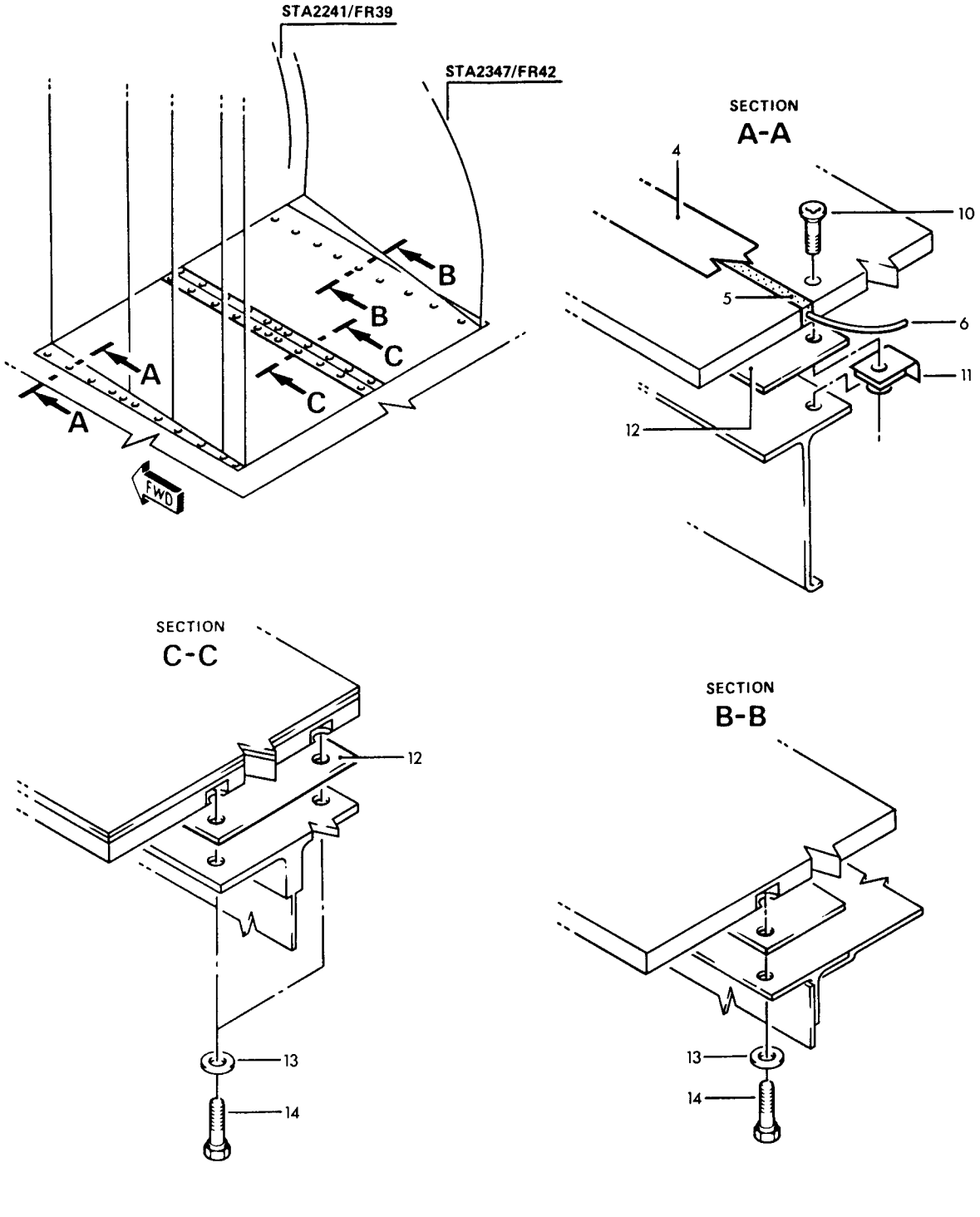
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(b)Lift and slide lavatory clear.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.
(Ref. Fig. 403)
(Ref. Fig. 404)

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Prepare lavatory area for installation (Ref. Fig. 403, 404).
(a)Visually inspect structure for damage and corrosion.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(b)Remove all traces of old sealant using cleaning agent (Mat. No. 11-003).
(c)Check for correct position and condition of clipnuts (11) located on structure.
(d)Inspect, and if necessary, replace tape strips (12) (Mat. No. 08-005).
NOTE : Tape strips (12) are to be 2.0 mm (0.08 in.) in thickness and installed on aircraft structure.
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Position lavatory assembly.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.
(3)Install lower attachments (Ref. Fig. 403, 404).
NOTE : Do not tighten fasteners at this stage.
(a)Install bolts (2) and washers (3).
(b)Apply Common Grease (Mat. No. 04-001) on the threads of bolts (2).
(c)In forward cargo compartment, secure lavatory assembly to floor structure using bolts (14) and washers (13).
(d)Install screws (10).
(4)At this stage tighten all fasteners.
(5)Install upper connections (Ref. Fig. 401).
(a)Connect tie-rod (4) using pip pin (3), adjust tie-rod if necessary.
(b)Install bracket (11), complete with hose (12) using screws (9) and washers (10).
(c)Connect hose (8) using clamps (7).
(d)Connect hose (6) using clamps (5).
(6)Connect water/waste connections (Ref. Fig. 402).
NOTE : Wrap sealing tape (Mat. No. 05-022) around threads where hoses and tubes are to be connected.
(a)Apply release agent (Mat. No. 05-013) to floor contact surface of connection plate (6).
(b)Install connection plate (6), using washers (4) and bolts (3).
NOTE : Do not tighten bolts at this stage.
(c)Connect supply line (5).




Lower Attachments
Figure 403




Lavatory Floor Attachments
Figure 404

(d)Connect waste line assembly (1), using clamp (2).
(e)Install pipe (23).
(f)Install clamp (11), using bolts (12), washers (14) and nuts (13), if removed.
(g)Position new O-rings (20) and connect pipes (19, 23) with sleeve (22) and clamshell (21).
NOTE : Clamshell closure locks automatically when two halves are snapped together and it cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch. Axial adjustment 6.35 mm (0.25 in.) minimum angular misalignment for full coupling ±4°.
NOTE: The following steps (h) thru (k) are to be carried out in forward cargo compartment.
(h)Connect waste line (10), using clamp (9).
(j)Connect supply line (8), and bond to connection plate (6), using adhesive compound (Mat. No. 08-025).
(k)Position new O-rings (15) and connect pipes (23, 18) with sleeve (17) and clamshell (16).
(l)At this stage tighten all bolts (3).
(m)Apply sealant (7) (Mat. No. 09-016) to periphery of connection plate (6).
(n)Connect bonding strap (26) using bolt (27), washer (25) and nut (24) (Ref. 20-28-11, P. Block 1).

(7)Seal lavatory assembly (Ref. Fig. 403, 404).
(a)Lay length of cord (6) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus in gap between lavatory floor and surrounding floor panels.
(b)Apply sealant (5) (Mat. No. 09-016) to fill gap.
NOTE : Do not apply sealant to cord surplus length.
(c)Cover sealant gaps with tape (4) (Mat. No. 05-015).
(d)Lay length of cord (6) (Mat. No. 05-016) in loops in each attach fitting cavity and apply sealant (5) (Mat. No. 09-016)
NOTE : When applying sealant, leave approx. 100 mm (4 in.) length of cord exposed.
(e)To prevent corrosion, preserve Lavatory fittings with Storage Preservation (15) (Mat. No. 15-008).
NOTE : Use a brush for greasing the fittings.

(8)Install nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).
(9)Install threshold (8) (Ref. Fig. 403).
(a)Apply sealant (5) (Mat. No. 09-016) to underside of threshold (8).
(b)Position threshold, coat screws (9) with thread sealant (Mat. No. 05-002) and install.
(c)At both ends of threshold, seal gaps using sealant (5) (Mat. No. 09-016).

(10)Install cover plates (1) (Ref. Fig. 403).
(11)Remove protective caps and connect electrical connectors 5920VC-A (1) and 5921VC-A (2) (Ref. Fig. 401).
(12)Replenish potable water system as required (Ref. 12-15-38, P. Block 1).
(13)Pressurize potable water system (Ref. 38-40-00, P. Block 301).
(14)Check all lavatory water and waste line connections for leaks. Leaks are not permissible.

(15)Install toilet shroud (Ref. 25-45-11, P. Block 401).
(16)Install smoke detector (Ref. 26-17-11, P. Block 401).
(17)Close lavatory ceiling access panel and secure fasteners.
(18)Install coat closet 25-27-12, P. Block 401).
(19)Install doghouse (Ref. 25-27-17, P. Block 401).
(20)In forward cargo compartment, install ceiling panels.

E. Test
(1)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Carry out operational test of lavatory W interface system (Ref. 25-40-00, P. Block 501).
(4)Carry out operational test of razor sockets (Ref. 25-44-00, P. Block 501).
(5)Carry out operational test of vacuum toilet system (Ref. 38-35-00, P. Block 501).

F. Close-Up
(1)Adjacent to lavatory rear wall, install the following:
(a)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(2)Install carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(3)Install passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(4)Install cabin attendant seats (Ref. 25-21-61, P. Block 401).
(5)Install curtain rails, as required (Ref. 25-26-00, P. Block 1).
(6)Close water service panel access door 136BR.
(7)Remove access platform.
(8)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.

## LAVATORY T - REMOVAL/INSTALLATION

**WARNING** : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reasons for the Job

A. Gaining access to aircraft structure.

B. Lavatory replacement or repair.

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 1 m (3 ft.) |
| B. | O-Rings |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Protective Caps |
| E. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| F. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| M. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| N. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| P. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| Q. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-21, P. Block 401 | Upper Sidewall Panels |
| - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-27-12, P. Block 401 | Coat Closet |
| - 25-27-17, P. Block 401 | Doghouse |
| - 25-28-00, P. Block 1 | Floor Covering |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |
| - 25-45-11, P. Block 401 | Toilet Shroud |

- 26-17-11, P. Block 401 Smoke Detector
- 38-35-00, P. Block 501 Vacuum Toilet System
- 38-40-00, P. Block 301 Air Supply

3. Procedure

A. Job Set-Up

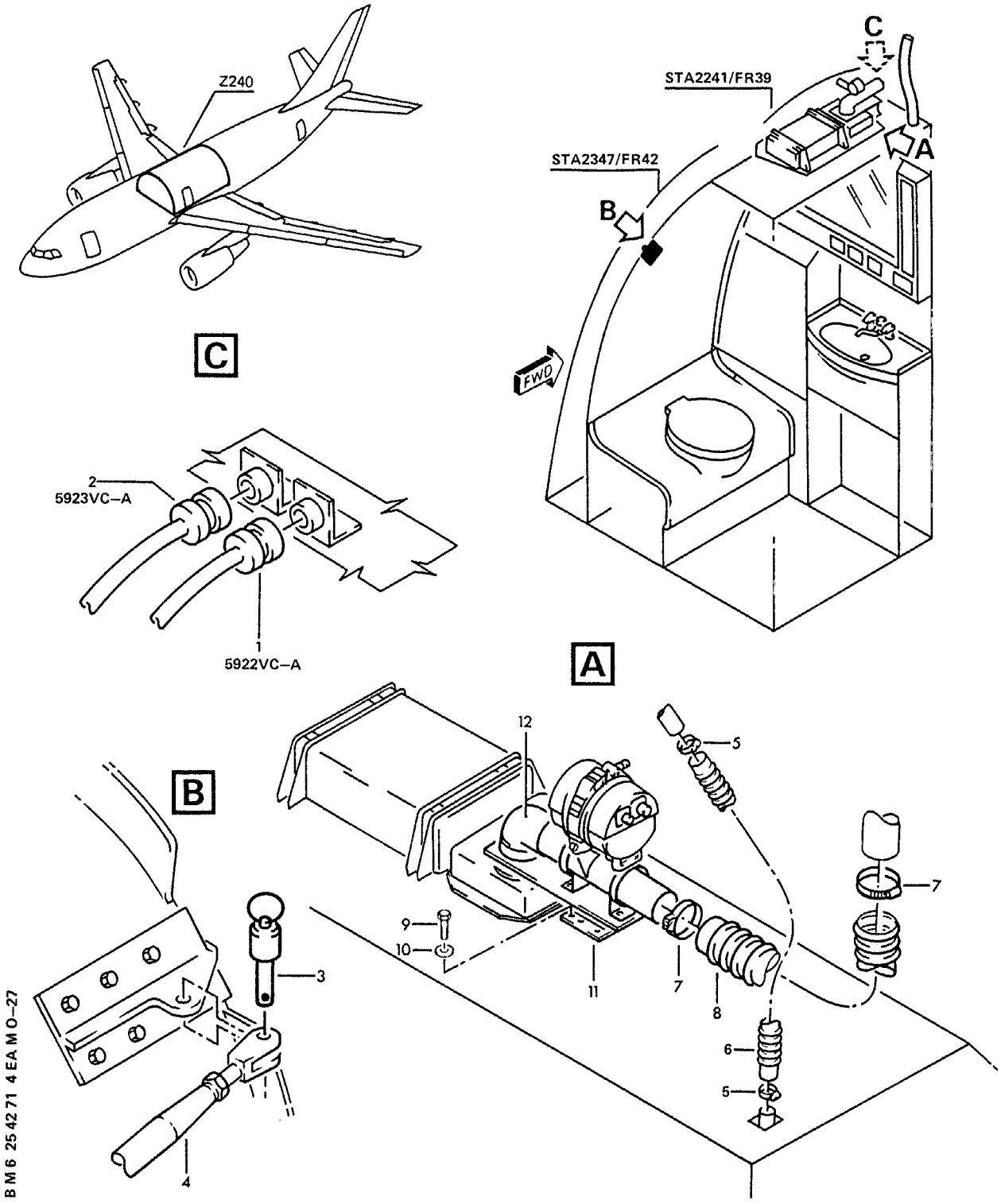
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COMP-PASSENGER ADDRESS F/C | 5RY | B15 |
| 22VU | PASSENGER OXYGEN CTL AND WARN | 1WR | H24 |
| 22VU | EMER LT-TOILETS | 1WL | E26 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGNS-SEAT BELTS/RETURN | 29WJ | P82 |
| 800VU | CALL SYSTEM/LAVATORY | 4LN | E12 |
| 800VU | CALL SYSTEM/TEST | 5LN | E11 |
| 800VU | LAVATORY FWD & MID/LIGHT | 1LQ | G 2 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 42MB | G 8 |
| 800VU | LAVATORY FWD & MID/HOT WATER | 1MB | G 7 |
| 800VU | LAVATORY FWD & MID/SHAVER SOCKET | 1MT | G 6 |
| 800VU | LAVATORY FWD & MID/OCCUPIED | 1WJ | G 4 |
| 811VU | VACUUM BLOWER | 110MG | C 5 |

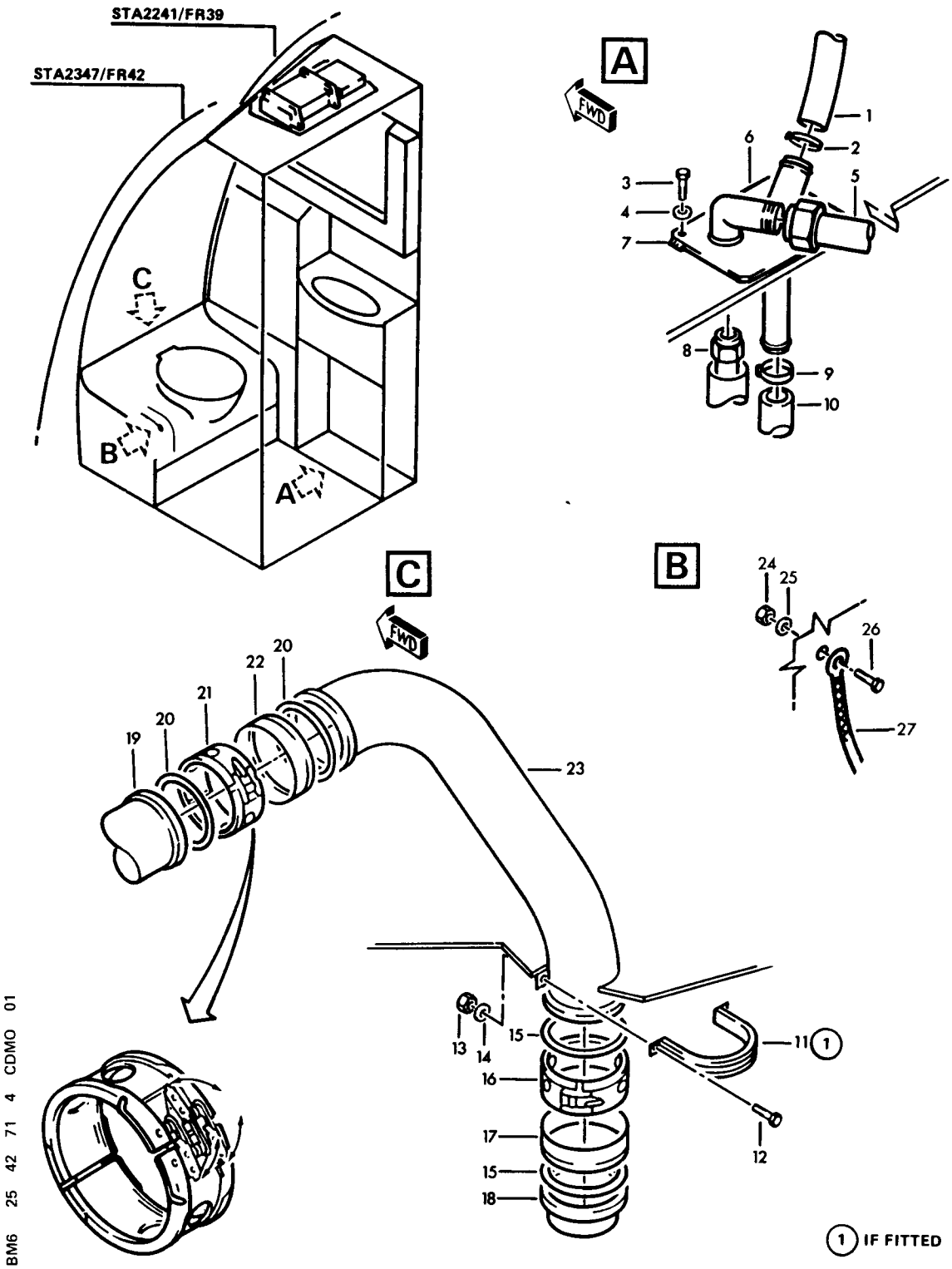
(2)Remove passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(3)Remove cabin attendant seats (Ref. 25-21-61,P. Block 401).
(4)Remove doghouse (Ref. 25-27-17, P. Block 401).
(5)Remove coat closet (Ref. 25-27-12, P. Block 401).
(6)Remove carpet floor covering in lavatory area (Ref. 25-28-00, P. Block 1).
(7)Remove nontextile floor covering in lavatory area (Ref. 25-28-12, P. Block 401).
(8)Remove curtain rails from lavatory (if fitted), (Ref. 25-26-00, P. Block 1).
(9)Adjacent to lavatory front wall, remove the following:
(a)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(10)Relieve water system pressure.
(a)Position access platform.
(b)Open water service panel access door 136BR.
(c)Turn fill/overflow and drain valve control handle to position **DRAIN** and pull.
NOTE : Air pressure will escape via overflow port.
(d)Turn fill/overflow and drain valve control handle until locked in position **NORMAL**.
(11)In lavatory, release fasteners and open ceiling access panel.
(12)Remove smoke detector (Ref. 26-17-11, P. Block 401).

(13)Remove toilet shroud (Ref. 25-45-11, P. Block 401).

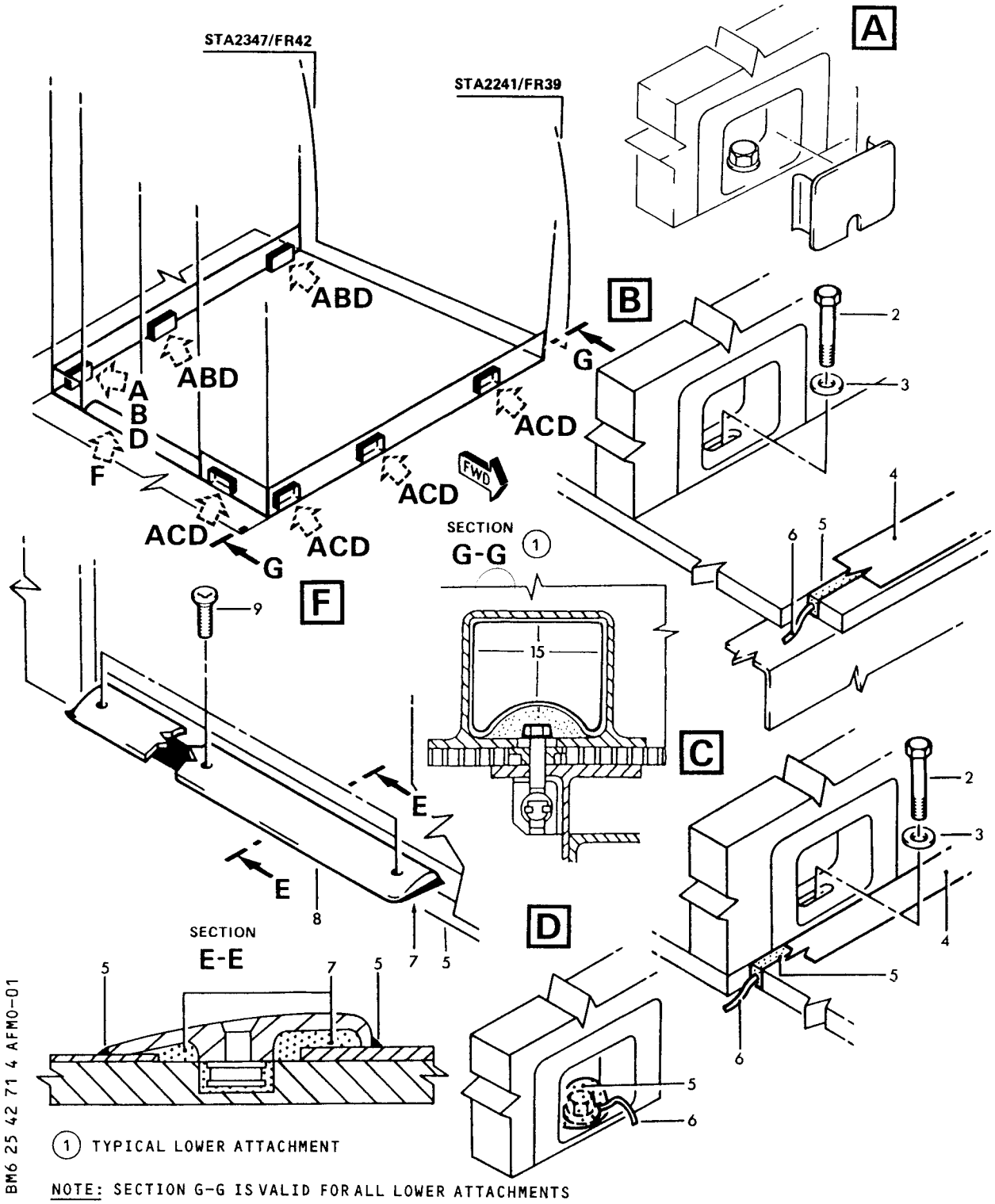
B. Removal
(Ref. Fig. 401)
(1)At STA2294/FR40 disconnect electrical connectors 5922VC-A (1) and 5923VC-A (2) and fit protective caps (Ref. Fig. 401).
(2)Remove upper connections (Ref. Fig. 401).
(a)Remove clamps (7) and disconnect hose (8).
(b)Remove clamps (5) and disconnect hose (6).
(c)Remove screws (9), washers (10) and bracket (11) complete with duct (12).
(d)Remove pip pin (3), disconnect tie-rod (4) and secure tie-rod (4) to aircraft structure.
(3)Disconnect water/waste connections (Ref. Fig. 402).
NOTE : Steps (a) thru (e) are to be carried out in forward cargo compartment and steps (f) thru (m) in lavatory.
(a)In forward cargo compartment, remove ceiling panels 131DC and 131EC.
(b)Remove clamp (9) and disconnect waste line (10).
(c)Disconnect supply line (8).
(d)Release clamshell (16) and slide over pipe (18).
NOTE : Quick-disconnect action of the clamshell enables assembly and removal by one hand. All three latch pawls must be lifted simultaneously to disengage the latch.
(e)Remove O-rings (15), sleeve (17) and disconnect pipe (18). Discard O-rings (15).
(f)Remove bolts (12), washers (14), nuts (13) and clamp (11), if fitted.
(g)Release clamshell (21) and slide over pipe (23).
(h)Remove O-rings (20), sleeve (22) disconnect pipes (19, 23), and remove pipe (23). Discard O-rings (20).
(j)Disconnect supply line (5).
(k)Remove clamp (2) and disconnect hose (1).
(l)Remove bolts (3), washers (4) and connection plate (6).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(m)Remove sealant (7) from plate (6) using cleaning agent (Mat. No. 11-003).
(n)Remove nut (24), washer (25), bolt (27) and disconnect bonding strap (26).
(4)Remove lower attachments.
(Ref. Fig. 403)
(Ref. Fig. 404)
(a)Remove screws (9) and threshold (8).
(b)Remove cover plates (1).
NOTE : Use a suitable tool for removing the cover plates.
(c)At lavatory base, remove tape (4) and screws (10).
(d)Remove protection wax (15).
(e)Release sealant (5) at lower attach points by pulling embedded cord (6).
(f)Remove bolts (2) and washers (3).
(g)In forward cargo compartment, remove bolts (14) and washers (13).
(5)Remove lavatory assembly (Ref. Fig. 403, 404).



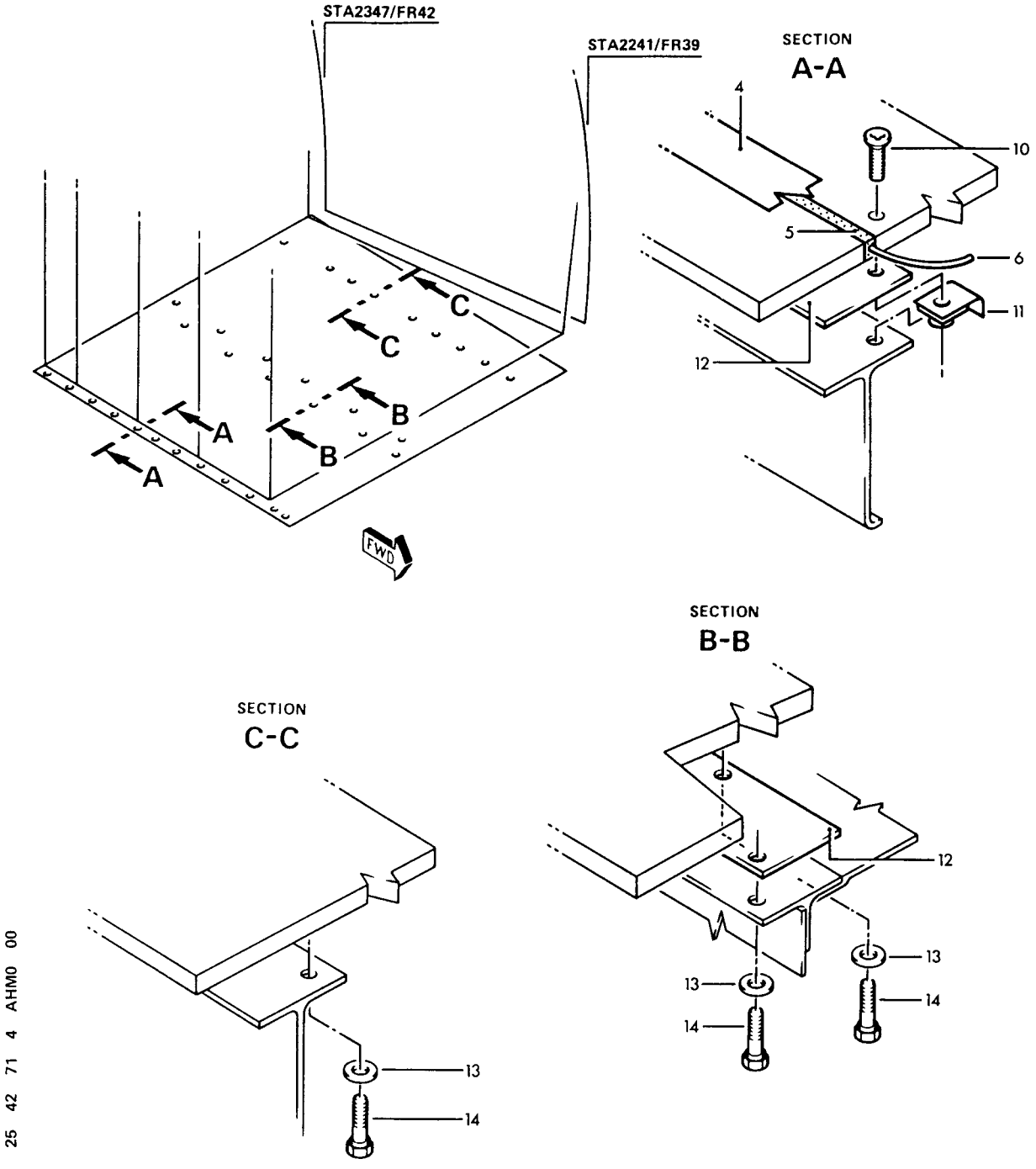

Upper Connections
Figure 401




Water/Waste Connections
Figure 402




Lower Attachments
Figure 403

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Lavatory Floor Attachments
Figure 404

(a)Release sealant (5) from gaps between lavatory floor and cabin floor by pulling embedded cord (6).

WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(b)Lift and slide lavatory clear.

NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

C. Preparation for Installation

(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.

(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation

(1)Prepare lavatory area for installation (Ref. Fig. 403, 404).

(a)Visually inspect structure for damage and corrosion.

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(b)Remove all traces of old sealant, using cleaning agent (Mat. No. 11-003).

(c)Check for correct position and condition of clipnuts (11) located on structure.

(d)Inspect and, if necessary, replace tape strips (12) (Mat. No. 08-005).

NOTE : Tape strips (12) are to be 2.0 mm (0.08 in.) in thickness and installed on aircraft structure.

WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(2)Position lavatory assembly.

NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

(3)Install lower attachments (Ref. Fig. 403, 404).

NOTE : Do not tighten bolts and screws at this stage.

(a)Install bolts (2) and washers (3).

(b)Apply Common Grease (Mat.No. 04-001) on the threads of bolts (2).

(c)In forward cargo compartment, secure lavatory assembly to floor structure using bolts (14) and washers (13).

(d)Install screws (10).

(4)Tighten all bolts and screws.

(5)Install upper connections (Ref. Fig. 401).

(a)Release tie-rod (4) from aircraft structure and connect tie-rod (4) using pip pin (3).

NOTE : Adjust tie-rod (4) if necessary.

(b)Install bracket (11) complete with hose (12), using screws (9) and washers (10).

(c)Connect hose (6) using clamp (5).

(d)Connect hose (8) using clamp (7).

(6)Connect water/waste connections (Ref. Fig. 402).

NOTE : Wrap sealing tape (Mat. No. 05-022) around threads where hoses and tubes are to be connected.

(a)Apply release agent (Mat. No. 05-013) to floor contact surfaces of connection plate (6).

(b)Install connection plate (6), using washers (4) and bolts (3).

NOTE : Do not tighten bolts at this stage.

(c)Connect supply line (5).

(d)Connect waste line assembly (1), using clamp (2).

(e)Install pipe (23).

(f)Install clamp (11), using bolts (12), washers (14) and nuts (13), if removed.

(g)Position new O-rings (20) and connect pipes (23, 19) with sleeve (22) and clamshell (21).

NOTE : Clamshell closure locks automatically when two halves are snapped together and cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch.
Axial adjustment 6.35 mm (0.25 in.) minimum, angular misalignment for full coupling ±4°.

NOTE : The following steps (h) thru (k) are to be carried out in forward cargo compartment.

(h)Connect waste line (10), using clamp (9).

(j)Connect supply line (8).

(k)Position new O-rings (15) and connect pipes (23, 18) with sleeve (17) and clamshell (16).

(l)At this stage tighten all bolts (3).

(m)Apply sealant (7) (Mat. No. 09-016) to periphery of connection plate (6).

(n)Connect bonding strap (26) using bolt (27), washer (25) and nut (24) (Ref. 20-28-11, P. Block 1).

(7)Seal lavatory assembly (Ref. Fig. 403, 404).

(a)Lay length of cord (6) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus in gap between lavatory floor and surrounding floor panels.

(b)Apply sealant (5) (Mat. No. 09-016) to fill gap.

NOTE : Do not apply sealant to cord surplus length.

(c)Cover sealant with tape (4) (Mat. No. 05-015).

(d)Lay length of cord (6) (Mat. No. 05-016) in loops in each attach fitting cavity and apply sealant (5) (Mat. No. 09-016).

NOTE : When applying sealant, leave approx. 100 mm (4 in.) length of cord exposed.

(e)To prevent corrosion, preserve Lavatory fittings with Storage Preservation (20) (Mat. No. 15-008).

NOTE : Use a brush for greasing the fittings.

(8)Install nontextile floor covering, as required (Ref. 25-28-12, P. Block 401).

(9)Install threshold (8) (Ref. Fig. 403).

(a)Apply sealant (5) (Mat. No. 09-016) to underside of threshold (8).

(b)Position threshold, coat screws (9) with thread sealant (Mat. No. 05-002) and install.

(c)At both ends of threshold, seal gaps using sealant (5) (Mat. No. 09-016).

(10)Install cover plates (1) (Ref. Fig. 403).

(15)Remove protective caps and connect electrical connectors 5922VC-A (1) and 5923VC-A (2) (Ref. Fig. 401).

(12)Replenish potable water system, as required (Ref. 12-15-38, P. Block 1).

(13)Pressurize potable water system (Ref. 38-40-00, P. Block 301) and open

FWD water system shutoff valves.
(14)Check all lavatory water and waste line connections for leaks. Leaks are not permissible.
(15)Install toilet shroud (Ref. 25-45-11, P. Block 401).
(16)Install smoke detector (Ref. 26-17-11, P. Block 401).
(17)Close lavatory ceiling access panel and secure fasteners.
(18)Install coat closet (Ref. 25-27-12, P. Block 401).
(19)Install doghouse (Ref. 25-27-17, P. Block 401).
(20)In forward cargo compartment, install ceiling panels 131DC and 131EC.

E. Test
(1)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Carry out operational test of lavatory T interface system (Ref. 25-40-00, P. Block 501).
(4)Carry out operational test of razor socket (Ref. 25-44-00, P. Block 501).
(5)Carry out operational test of vacuum toilet system (Ref. 38-35-00, P. Block 501).

F. Close-Up
(1)Adjacent to lavatory front wall, install the following:
(a)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(2)Install carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(3)Install passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(4)Install cabin attendant seats (Ref. 25-21-61, P. Block 401).
(5)Install curtain rails, as required (Ref. 25-26-00, P. Block 1).
(6)Close water service panel access door 136BR.
(7)Remove access platform.
(8)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.

## AFT LAVATORIES - REMOVAL/INSTALLATION

**WARNING** : LAVATORY D AND E ASSEMBLIES WEIGH APPROX. 52 kg (115 lb.) EACH.
LAVATORY F AND G ASSEMBLIES WEIGH APPROX. 66 kg (146 lb.) EACH.
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reasons for the Job

A. Gaining access to aircraft structure

B. Lavatory replacement or repair

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform(s), up to 4 m (13 ft.) |
| B. | O-Rings |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Protective Caps and Plugs |
| E. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| F. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| M. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| N. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| P. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |
| Referenced Procedures | |
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 12-24-38, P. Block 1 | Potable Water System - Draining |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-00-00, P. Block 801 | Equipment/Furnishings |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-33-11, P. Block 401 | AFT Galley Unit |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |
| - 25-45-11, P. Block 401 | Toilet Shroud |
| - 25-45-23, P. Block 401 | Sliding Door |
| - 25-45-24, P. Block 401 | Folding Door |
| - 26-17-11, P. Block 401 | Smoke Detector |

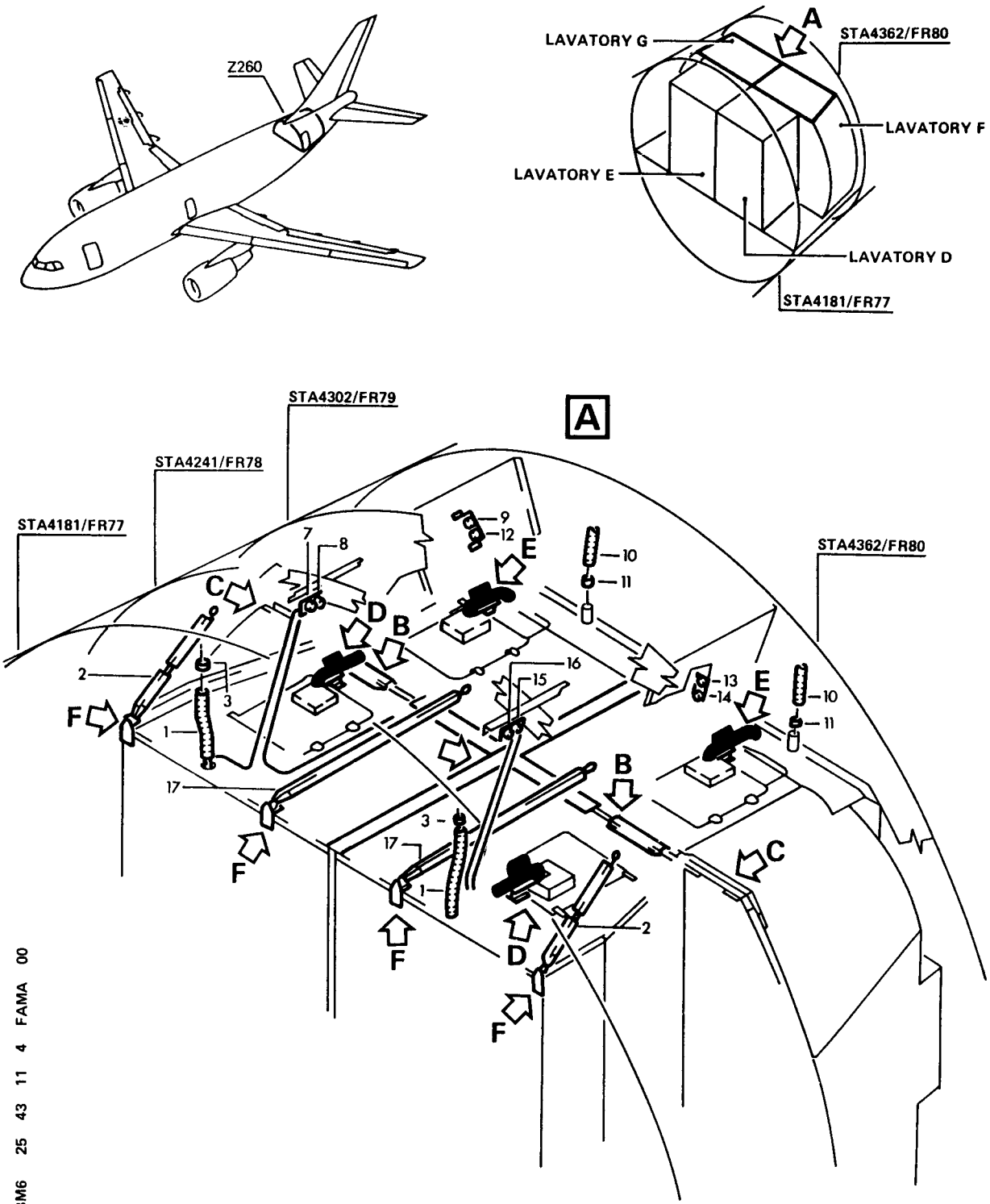
3. Procedure

A. Job Set-Up
(1)Position access platform and gain entry to cabin area through an appropriate passenger/crew door.
(2)Open, safety and tag the following circuit breakers:

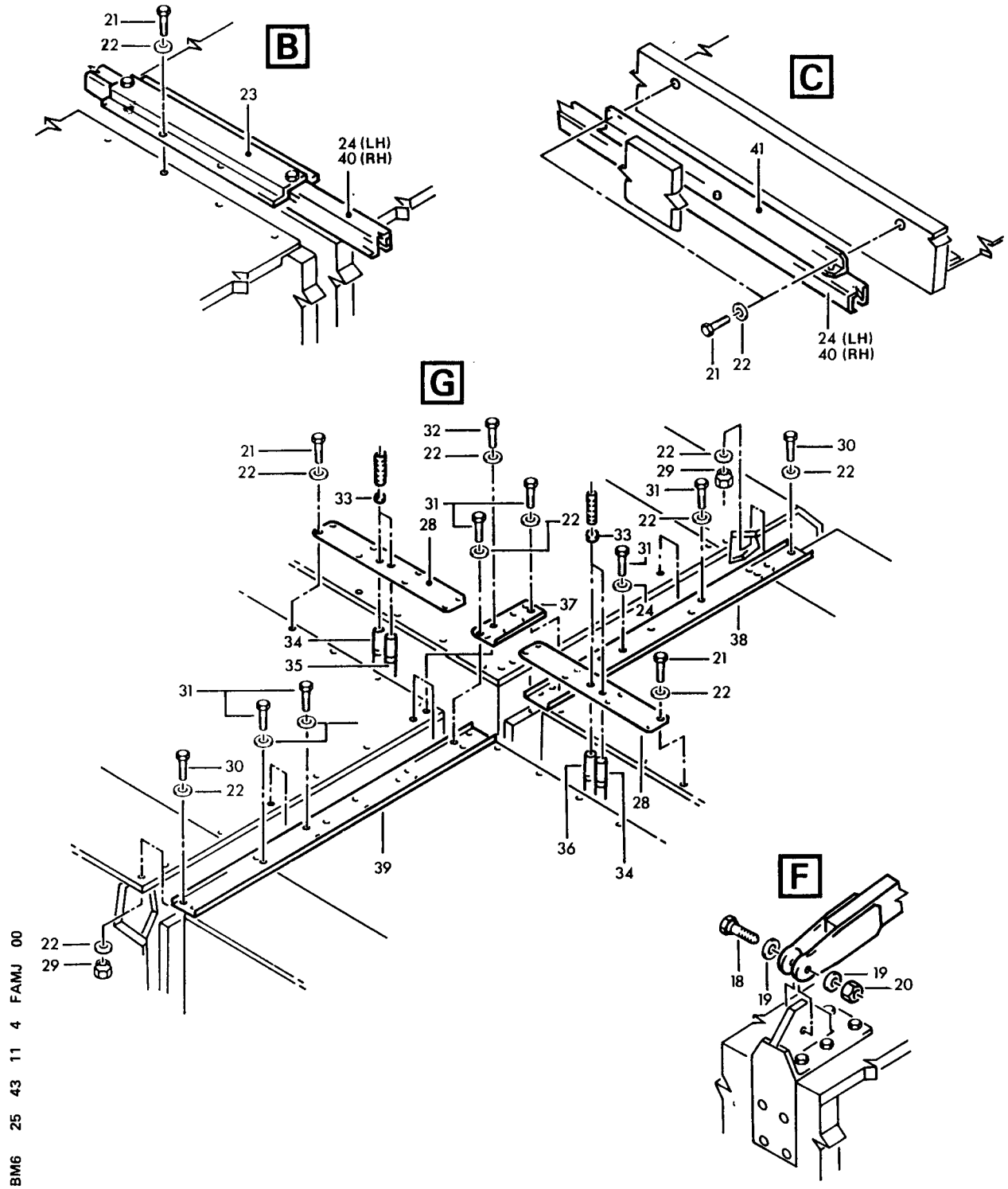
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | EVAC SIGNAL | 1WP | E24 |
| 22VU | EMER LT-TOILETS | 1WL | E26 |
| 22VU | PASSENGER OXYGEN/ACTUATION | 2WR | H25 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGNS/ SEAT BELTS RETURN TO SEAT | 29WJ | P82 |
| 811VU | CALL SYSTEM/LAVATORY | 29LN | B10 |
| 811VU | LAVATORY REAR/LIGHT | 11LQ | D 2 |
| 811VU | LAVATORY REAR/HOT WATER | 11MB | D 4 |
| 811VU | LAVATORY REAR/HOT WATER | 13MB | D 5 |
| 811VU | LAVATORY REAR/SHAVER SOCKET | 4MT | D 7 |
| 811VU | LAVATORY REAR/OCCUPIED | 11WJ | D 6 |
| 811VU | VACUUM BLOWER/LH | 110MG | F4 |
| 811VU | VACUUM BLOWER/RH | 10MG | F7 |

(a)Remove lavatory doors (Ref. 25-45-22, P. Block 401 and 25-45-24, P. Block 401).
(b)Remove toilet shrouds (Ref. 25-45-11, P. Block 401)
(12)Position access platform and open bulk cargo door (Z813) for access to toilet waste connections in Zone 170.

B. Removal
(Ref. Fig. 401)
(1)Disconnect upper services.
(a)At STA4181(FR77) and STA4362(FR80) remove clamps (3, 11) and disconnect hoses (1, 10).
(b)Remove clamps (33) and disconnect hoses from waste tank vent lines (34, 35, 36).
(c)Remove clamp (5) and disconnect hoses (6).
(d)Remove screws (26), washers (25) and brackets (27) complete with attached hoses (4).
(e)Disconnect electrical connectors 5814VC-A (7), 5816VC-A (8), 5818VC-A (9), 5820VC-A (12), 5819VC-A (13), 5821VC-A (14), 5815VC-A (15) and 5817VC-A (16) and fit protective caps.
(2)Disconnect upper connections.
(a)Remove bolts (18), washers (19) and nuts (20).
(b)Secure Tie-rods (2, 17) to aircraft structure.
(c)Open lavatory ceiling access panels, remove bolts (31, 32), washers (22) and plate (37).
(d)At plate (39) remove bolts (30, 31), washers (22) and nuts (29).
NOTE : Leave plate (39) connected to lavatory D assembly.
(e)At plate (38) remove bolts (30, 31), washers (22) and nuts (29).

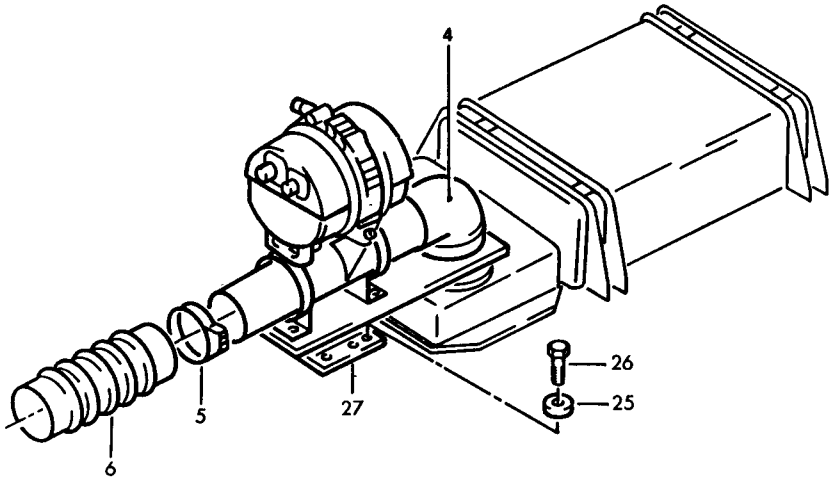



Upper Attachments - Sheet 1/3
Figure 401

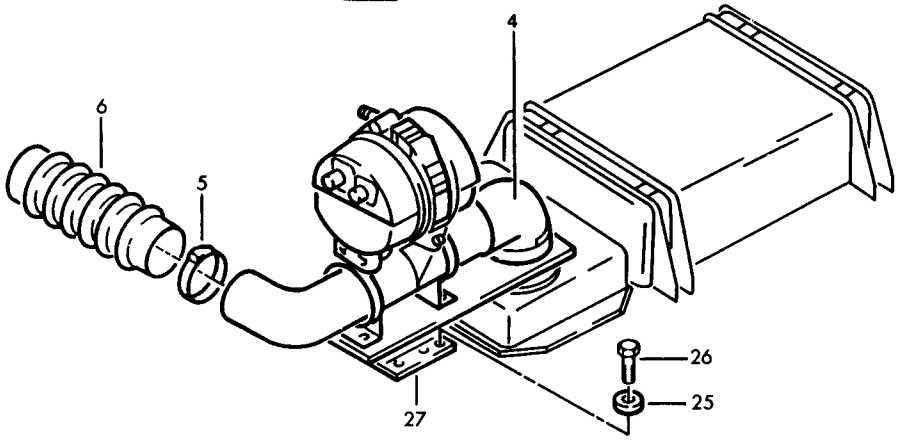



Upper Attachments - Sheet 2/3
Figure 401

D ①




E ②




① LAVATORY D SHOWN, LAVATORY E SYMMETRICAL

② LAVATORY F SHOWN, LAVATORY G SYMMETRICAL

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Upper Attachments - Sheet 3/3
Figure 401

NOTE : Leave plate (38) connected to lavatory F assembly.

(f)Remove bolts (21), washers (22) and plates (28).

(g)Remove bolts (21), washers (22) and rails (24, 40) complete with angles (41) and sections (23).

(3)Disconnect washbasin services.

(Ref. Fig. 402)

Note : Accessible from zone 170.

(a)Release unions and remove lines (2, 4, 5, 8).

(b)Release clamps (1) and disconnect hose assemblies (3, 6, 7), remove sleeves (9).

(c)Fit protective plugs to disconnected hoses and lines.

(4)Remove lavatories D and E assemblies.

(Ref. Fig. 403, 404)

R (a)Remove screws (34) and threshold (35).

R (b)Remove sealant (8) from upper edge of floor pans (28, 29) of lavatories D and E.

R (c)Remove screws (33) and floor pans (28, 29) of lavatories D and E.

R (d)Remove floor pans (28, 29) from lavatories D and E.

R (e)Remove protection wax (42).

R (f)Release sealant (8) from lavatory base by pulling embedded cord (7).

R (g)Remove bolts (4, 5), washers (2) and inserts (6).

R (h)In lavatory cabinets, remove bolts (10, 13, 23), washers (11, 24) and nuts (12, 25).

NOTE : Support partition panel (27).

WARNING : LAVATORIES D AND E ASSEMBLIES WEIGH APPROX. 52 kg (115 lb.) EACH.

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

R (j)Lift and slide lavatories D and E assemblies clear.

NOTE : Place strips of Teflon or similar material under lavatory assemblies to ease sliding.

(5)Disconnect waste tank vent lines and lavatory flush lines.

(6)Remove partition panels and center walls.

(Ref. Fig. 404)

(a)Remove partition panel (27).

(b)Remove protection wax (42).

(b)Release sealant (8) at base of center walls (14, 15, 16, 17) and at lower attachments by pulling embedded cord (7).

(d)At center walls (14, 17), remove bolts (4) and washers (2).

(e)Remove screws (22) and washers (21).

(f)Remove center walls (14, 17).

NOTE : Support partition panel (26).

(g)At center walls (15, 16), remove bolts (4) and washers (2).

(h)Remove bolts (18), washers (11) and profiles (19) with clipnuts (20).

(k)Remove center walls (15, 16).

(l)Remove bolts (13), washers (11) and panel (26).

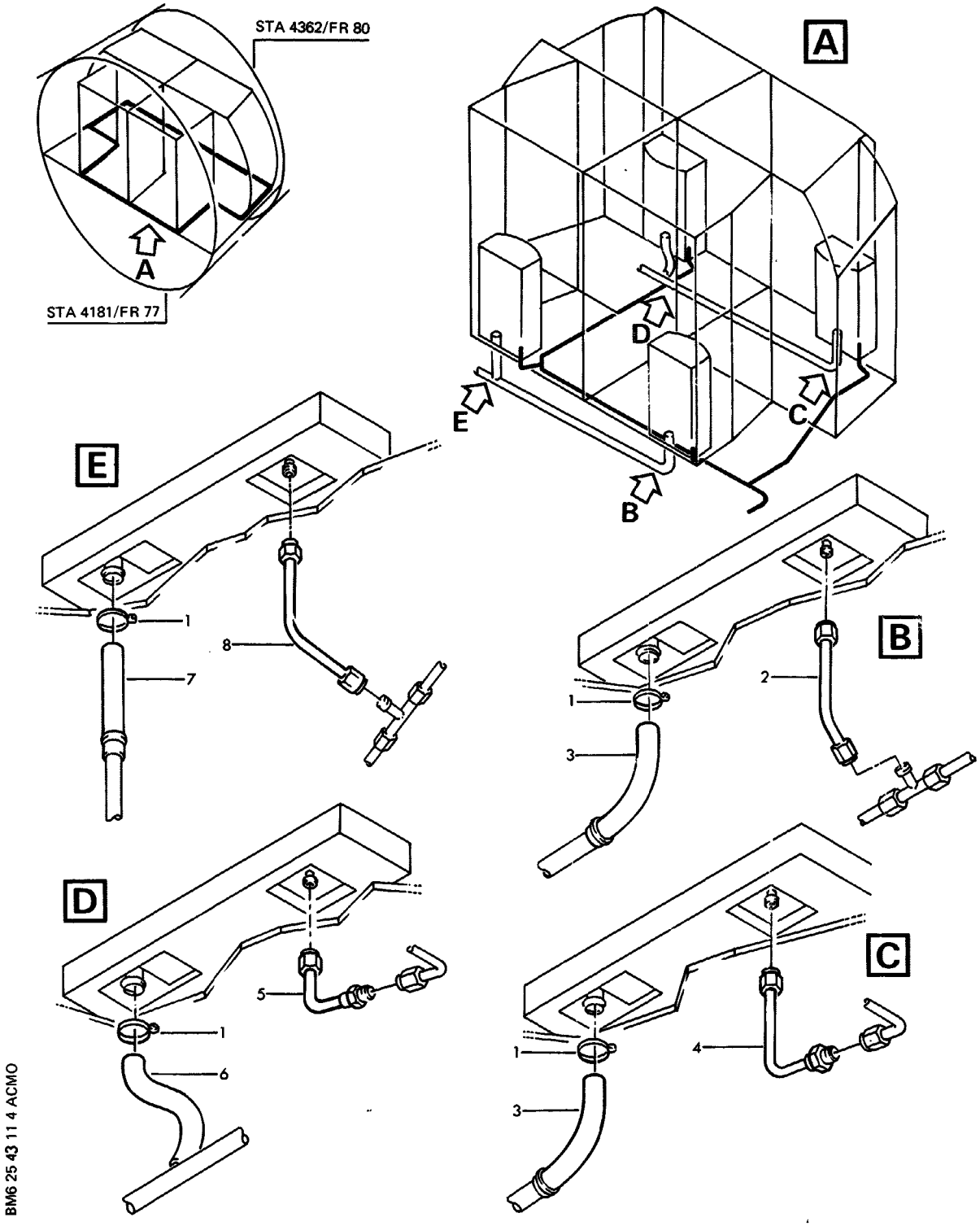
(7)Remove lavatories F and G assemblies.

(Ref. Fig. 403, 404)

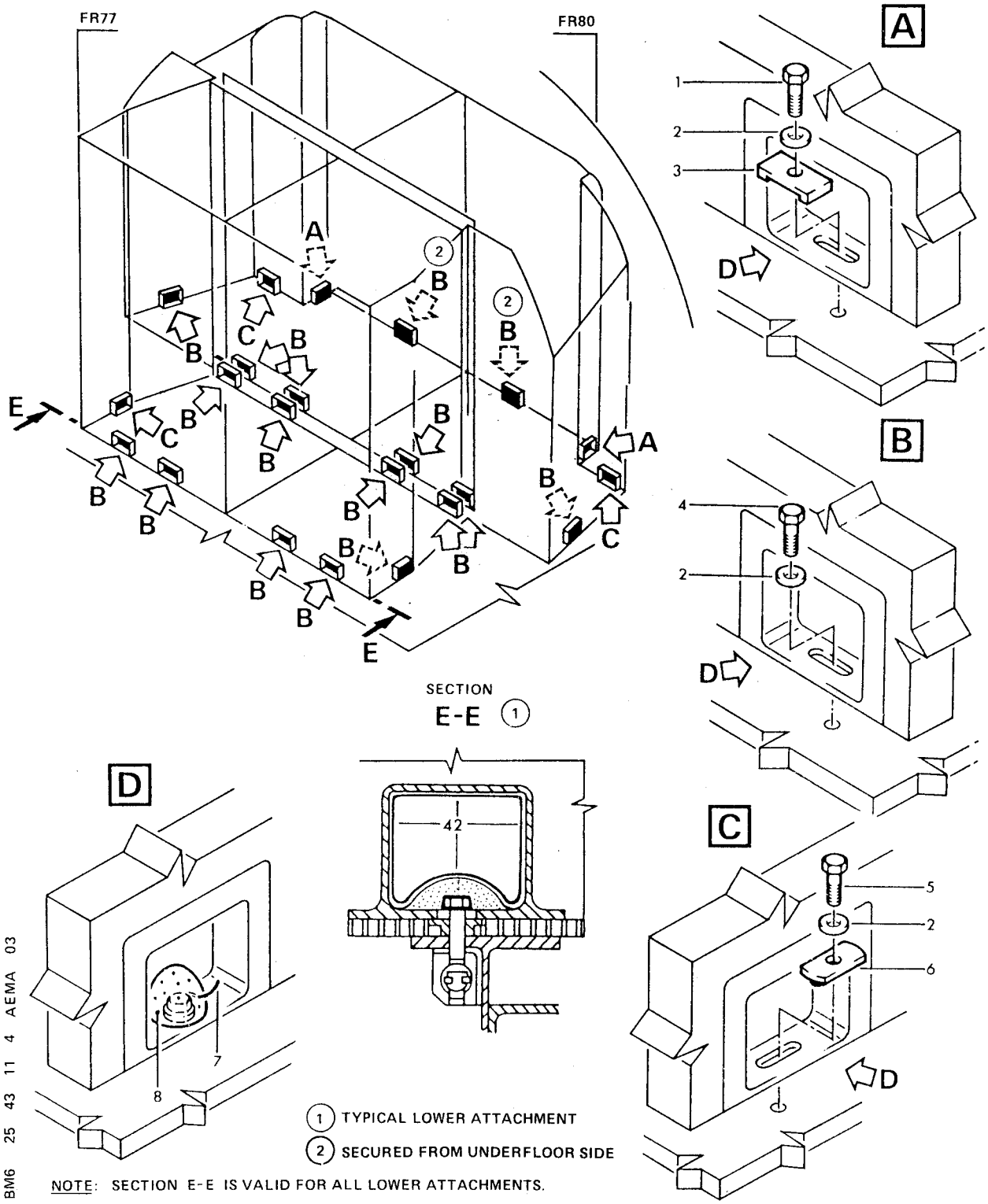
(a)Remove screws (34) and threshold (35).

(b)Remove sealant (8) from upper edge of floor pans (30, 31) of lavatories F and G.

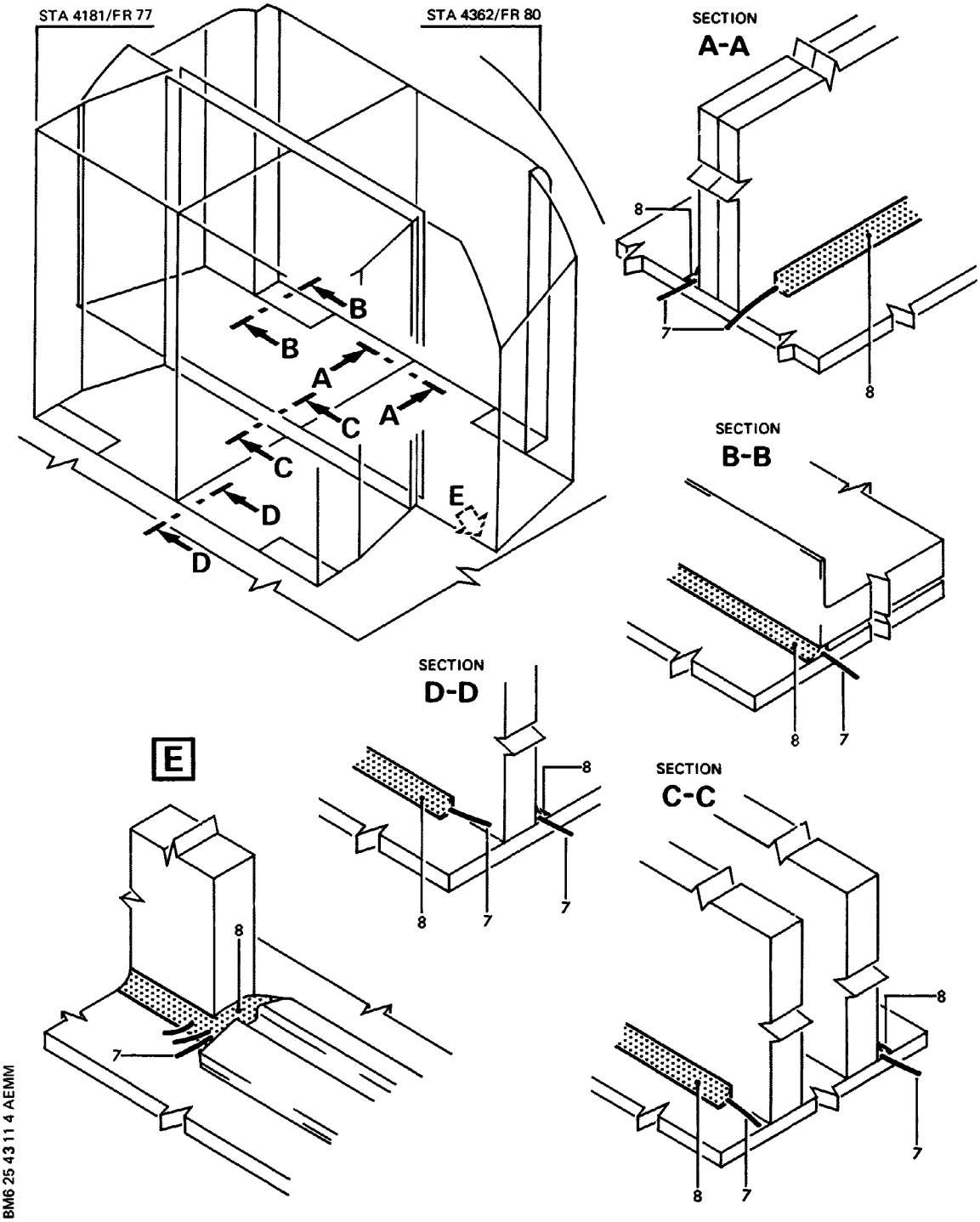
(c)Remove screws (32) and floor pans (30, 31) of lavatories F and G.




Washbasin Services
Figure 402




Lower Connections - Sheet 1/2
Figure 403




Lower Connections - Sheet 2/2
Figure 403

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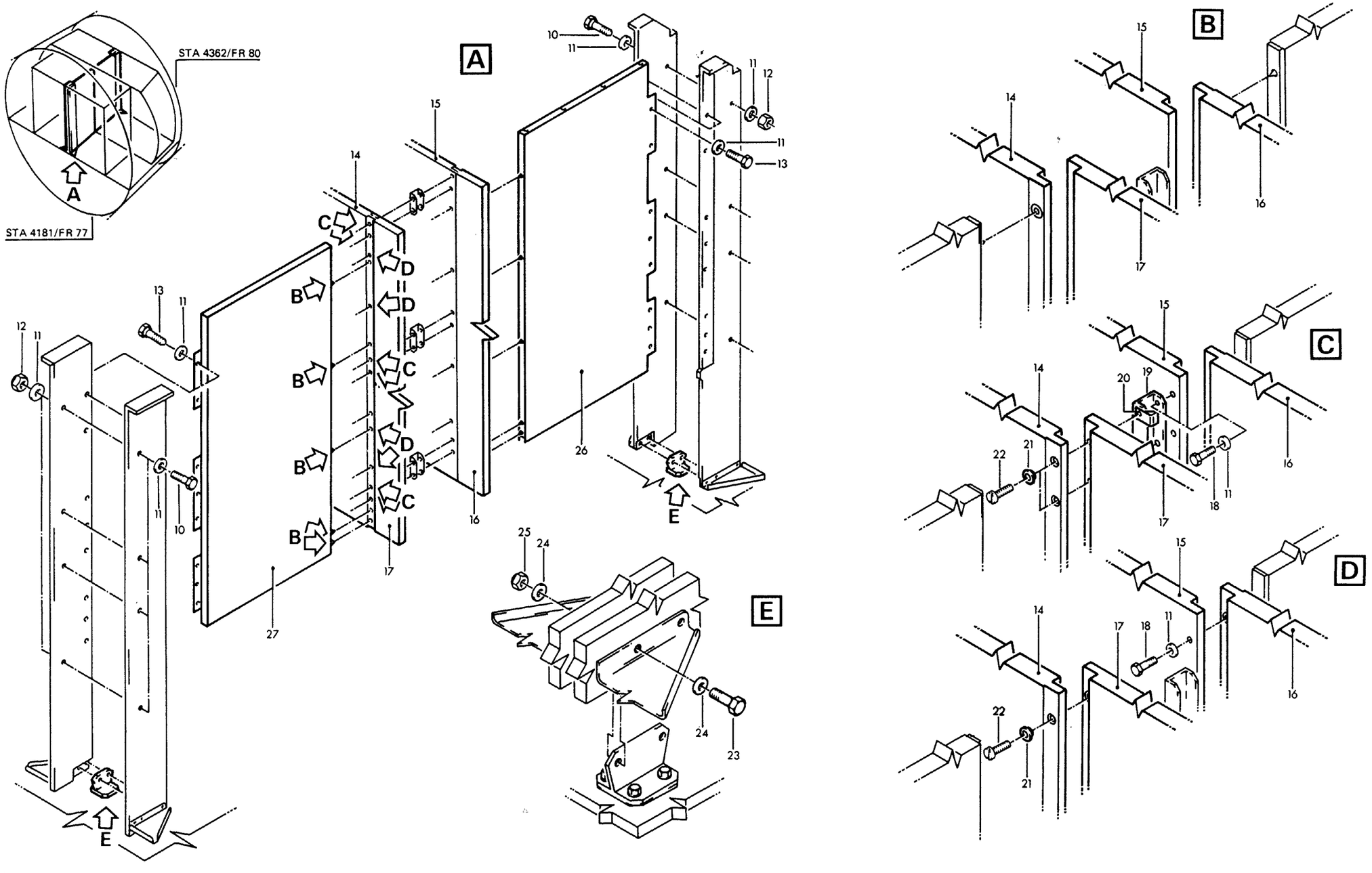


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Partition Panels and Center Walls
Figure 404

(d)Remove floor pans (30, 31) from lavatories F and G.
NOTE : LH and RH rearmost attachments are accessible from zone 170.
(e)Remove protection wax (42).
(f)Release sealant (8) from lavatory base and lower attachments by pulling embedded cord (7).
(g)Remove bolts (1, 4, 5), washers (2), inserts (6) and plates (3).
(h)In lavatory cabinets, remove bolts (10), washers (11) and nuts (12).
(j)Remove bolts (23), washers (24) and nuts (25).
WARNING : LAVATORIES F AND G ASSEMBLIES WEIGH APPROX. 66 kg (146 lb.) EACH.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(k)Lift and slide lavatory assemblies clear.
NOTE : Place strips of Teflon or similar material under lavatory assemblies to ease sliding.

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).
(3)Make certain that bushings and plates or bushings or plates in lavatory area are in correct position.

D. Installation
(1)Prepare lavatory area for installation.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(a)Remove all traces of old sealant with cleaning agent (Mat. No. 11-003) and nonmetallic scraper.
NOTE : Do not damage nontextile floor covering materials.
(b)Visually inspect lavatory floor area for damage and corrosion and repair if necessary (Ref. 53-10-20, P. Block 601).
(c)Visually inspect nontextile floor covering materials and sealing.
NOTE : Nontextile floor covering can be repaired (Ref. 25-00-00, P. Block 801).
(2)Install lavatories F and G assemblies.
(Ref. Fig. 403, 404)
WARNING : LAVATORY F AND G ASSEMBLIES WEIGH APPROX. 66 kg (146 lb.) EACH.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(a)Position lavatories F and G assemblies.
NOTE : Do not tighten fasteners at this stage.
(b)Apply Common Grease (Mat. No. 04-001) on the threads of bolts (1,4,5).
(c)Install bolts (1, 4, 5) with washers (2), inserts (6) and plates (3).
(d)At lavatory cabinets, install bolts (10), washers (11) and nuts (12).
(e)Install bolts (23), washers (24) and nuts (25).
(f)Install lavatory floor pans (30,31) and screws (32).
(g)Apply sealant (8) (Mat. No. 09-016) to upper edge of floor pans (30,31).
(3)Install partition panels and center walls.
(Ref. Fig. 404)
(a)Position and support partition panel (26).
(b)Install panel (26) using bolts (13) and washers (11).
(c)Position center walls (15, 16), complete with attached waste tank vent lines, remove plugs from tube ends and install bolts (4) and

washers (2).
(d)Install profiles (19) complete with clipnuts (20), using bolts (18) and washers (11).
(e)Join center walls (15, 16) with bolts (18) and washers (11).
(f)Position center walls (14, 17), complete with attached waste tank vent lines, remove plugs from tube ends and install bolts (4) and washers (2).
(g)Join center walls (14, 17) with screws (22) and washers (21) and install screws (22) and washers (21).
(h)Position and support partition panel (27).

(4)Install lavatories D and E assemblies
(Ref. Fig. 403, 404)
WARNING : LAVATORY D AND E ASSEMBLIES WEIGH APPROX. 52 kg (115 lb.) EACH.
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(a)Position lavatories D and E assemblies.
NOTE : Do not tighten fasteners at this stage.
(b)Apply Common Grease (Mat. No. 04-001) on the threads of bolts (4, 5).
(c)Install bolts (4, 5) with inserts (6) and washers (2).
(d)At lavatory cabinets, install bolts (10), washers (11) and nuts (12).
(e)Install bolts (23), washers (24) and nuts (25).
(f)Install partition panel (27) with bolts (13) and washers (11).
(g)Install floor pans (28,29) and screws (33).
(h)Apply sealant (8) (Mat. No. 09-016) to upper edge of floor pans (28,29).

(5)Connect upper connections.
(Ref. Fig. 401)
NOTE : Do not tighten fasteners at this stage.
(a)Install rails (24, 40) complete with angles (41) and sections (23) using bolts (21) and washers (22).
(b)Install plates (28) with bolts (21) and washers (22).
(c)Install plate (38) to lavatory G assembly, using bolts (30, 31), washers (22) and nuts (29).
(d)Install plate (39) to lavatory E assembly, using bolts (30, 31), washers (22) and nuts (29).
(e)Install plate (37), using bolts (31, 32) and washers (22).
(f)Position tie-rods (2,17) and install bolts (18), washers (19) and nuts (20).

(6)At this stage, tighten all fasteners securing lavatory assemblies.

(7)Install upper connections.
(a)Remove protective caps and connect electrical connectors 5814VC-A (7), 5816VC-A (8), 5818VC-A (9), 5820VC-A (12), 5819VC-A (13), 5821VC-A (14), 5815VC-A (15) and 5817VC-A (16).
(b)Position brackets (27) complete with hoses (4, 6) and install with screws (26) and washers (25).
(c)Connect hoses to waste tank vent lines (34, 35, 36), using clamps (33).
(d)Connect hoses (4, 6) using clamps (5).
(e)Connect hoses (1, 10) using clamps (3 and 11).

(8)Connect washbasin services.
(Ref. Fig. 402)
NOTE : Accessible from zone 170.

(a)Remove protective plugs from disconnected lines and hoses.
(b)Install sleeves (9).
(c)Connect hoses (3, 6, 7), using clips (1).
NOTE : Wrap sealing tape (Mat. No. 05-022) around threads where hoses and pipes are to be connected.
(d)Install pipes (2, 4, 5, 8).
(9)Connect waste tank vent lines and lavatory flush lines.
(10)Seal lavatory assemblies.
(Ref. Fig. 403)
NOTE : When applying sealant, leave approx. 100 mm (4 in.) length of cord exposed.
(a)Lay length of cord (7) (Mat. No. 05-016) in loops at each attachment fitting cavity and apply sealant (8) (Mat. No. 09-016).
(b)To prevent corrosion, preserve Lavatory fittings with Storage Preservation (42) (Mat. No. 15-008)
Note : Use a brush for greasing the fittings.
(c)Lay length of cord (7) (Mat. No. 05-016) along lavatory base (including lavatory cabinets and center walls) and apply sealant (8) (Mat. No. 09-016).
R (11)Install threshold (35).
R (a)Open the lavatory door.
R (b)Apply sealant (36) (Mat. No. 09-016) to underside of threshold (35).
R (c)Position threshold (35), coat screws (34) with anti-corrosion component (Mat. No. 05-002) and install.
R (d)At both ends of the threshold (35) seal gaps, using sealant (36) (Mat. No. 09-016).
R (12)Replenish potable water system as required (Ref. 12-15-38, P. Block 1).
R (13)Pressurize potable water system (Ref. 38-40-00, P. Block 301).
R (14)Check lavatory potable water line connections for leaks. Repair any leaks found.

F. Close-Up
(1)Install toilet shrouds (Ref. 25-45-11, P. Block 401)
(2)Install lavatory doors (Ref. 25-45-23, P. Block 401 and 25-45-24, P. Block 401).
(3)Install aft galley unit (Ref. 25-33-11, P. Block 401).
(4)Install ceiling panels in AFT utility area (Ref. 25-23-13, P. Block 401).
(5)Install nontextile floor covering (Ref. 25-28-12, P. Block 401).
(6)Disconnect electrical ground power unit and de-energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(7)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(8)Close bulk cargo compartment door (Z813) and remove access platform.
(9)Close passenger/crew door and remove access platform.

## LAVATORY X - REMOVAL/INSTALLATION

**WARNING** : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reasons for the Job

A. Gain access to aircraft structure.

B. Lavatory replacement or repair.

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 4 m (13 ft.) |
| B. | O-Rings |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Protective Caps |
| E. | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| F. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| M. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| N. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| P. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| Q. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-21-61, P. Block 401 | Cabin Attendant Seat, Freestanding |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-24-21, P. Block 401 | Center Overhead Stowage Compartment |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-00, P. Block 1 | Floor Covering |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |
| - 25-45-11, P. Block 401 | Toilet Shroud |
| - 26-17-11, P. Block 401 | Smoke Detector |
| - 38-35-00, P. Block 501 | Vacuum Toilet System |

3. Procedure

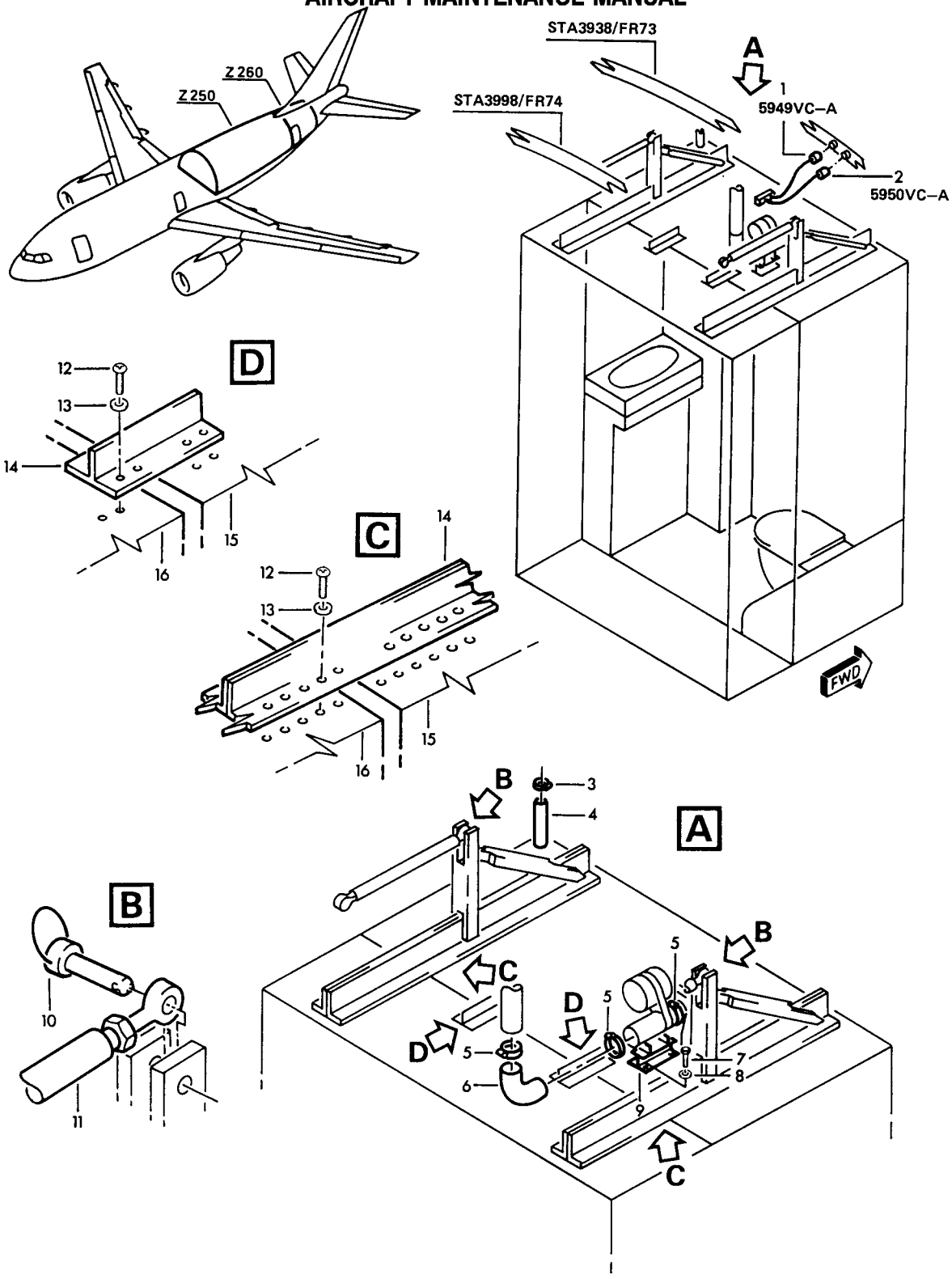
A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COMP/PASSENGER ADDRESS | 5RY | B15 |
| 22VU | PASSENGER OXYGEN CTL & WARN | 1WR | H24 |
| 22VU | EMER LT/TOILETS | 1WL | E26 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGNS/ SEAT BELT & RETURN TO SEAT | 29WJ | P82 |
| 811VU | CALL SYSTEM/LAVATORY | 29LN | B16 |
| 811VU | VACUUM CLEANER SOCKETS | 5ME | C17 |
| 811VU | VACUUM CLEANER SOCKETS | 6ME | C18 |
| 811VU | LAVATORY AFT/LIGHT | 11LQ | B 2 |
| 811VU | LAVATORY AFT/HOT WATER | 11MB | B 4 |
| 811VU | LAVATORY AFT/HOT WATER | 13MB | B 5 |
| 811VU | LAVATORY AFT/OCCUPIED | 11WJ | B 6 |
| 811VU | LAVATORY AFT/SHAVER SOCKET | 4MT | B 7 |
| 811VU | VACUUM BLOWER/RH | 10MG | C 8 |

(2)Remove cabin attendant seat, if fitted (Ref. 25-21-61, P. Block 401).
(3)Remove passenger seats in lavatory area (Ref. 25-21-00, P. Block 401).
(4)Remove center overhead stowage in lavatory area (Ref. 25-24-21, P. Block 401).
(5)Remove carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(6)Remove nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).
(7)Remove curtain rails from lavatory (if fitted), (Ref. 25-26-00, P. Block 1).
(8)At lavatory walls, remove pelmet by releasing quick-release fasteners and sliding free of retainers.
(9)Between AFT passenger/crew doors, remove utility area ceiling panel (Ref. 25-23-13, P. Block 401).
(10)Adjacent to lavatory side wall, remove the fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(11)Relieve water system pressure.
(a)Position access platform.
(b)Open water service panel access door 136BR.
(c)Turn fill/overflow and drain valve control handle to position DRAIN and pull.
NOTE : Air pressure will escape via overflow port.
(d)Turn fill/overflow and drain valve control handle until locked in position NORMAL.
(12)In lavatory, release fasteners and open ceiling access panel.
(13)Remove smoke detector (Ref. 26-17-11, P. Block 401).

(14)Remove toilet shroud (Ref. 25-45-11, P. Block 401).

B. Removal
(Ref. Fig. 401)
(1)At STA3938(FR73) disconnect electrical connectors 5949 VC-A (1) and 5950 VC-A (2) and fit protective caps.
(2)Remove upper connections.
(a)Remove clamp (3) and disconnect hose (4).
(b)Remove clamps (5) and disconnect hose (6).
(c)Remove screws (7), washers (8) and bracket (9).
(d)Remove pip pins (10) and disconnect tie-rods (11). Secure tie-rods (11) to aircraft structure.
(e)Remove screws (12) and washers (13).
(f)Remove plates (14) between lavatory ceiling (15) and lavatory extension ceiling (16).
(3)Disconnect water/waste connections (Ref. Fig. 402).
NOTE : Steps (a) thru (f) are to be carried out in aft cabin underfloor compartment and steps (g) thru (n) in lavatory.
(a)Open ceiling panel in aft cabin underfloor compartment between frames 71 and 75.
(b)Remove clamp (6) and disconnect hose (7).
(c)Disconnect supply line (12).
(d)Release clamshell (20) and slide over pipe (17).
NOTE : Quick-disconnect action of clamshell enables assembly and removal by one hand. All three latch pawls must be lifted simultaneously to disengage the latch.
(e)Remove O-rings (18), sleeve (19) and disconnect pipe (17).
(f)Discard O-rings (18).
(g)Release clamshell (24) and slide over pipe (21).
(h)Remove O-rings (22), sleeve (23), disconnect pipes (21, 25) and remove pipe (21). Discard O-rings (22).
(j)Remove nut (16), washer (15), bolt (13) and disconnect bonding strap (14).
(k)Remove clamp (2) and disconnect hose (1).
(l)Disconnect supply line (8).
(m)Remove bolts (4, 10), washers (5, 11) and connection plates (3, 9).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(n)Remove sealant remnants from plates (3, 9) using cleaning agent (Mat. No. 11-003).
(4)Remove lower attachments.
(Ref. Fig. 403)
(a)Remove screws (9) and threshold (8).
(b)Remove cover plates (1).
NOTE : Use a suitable tool for removing the cover plates.
(c)At lavatory base, remove tape (4).
(d)Remove protection wax (13).
(e)Release sealant (5) at lower attach points by pulling embedded cord (6).
(f)Remove bolts (2) and washers (3).
(g)In aft cargo compartment, remove bolts (10) and washers (11).
(5)Remove lavatory assembly.

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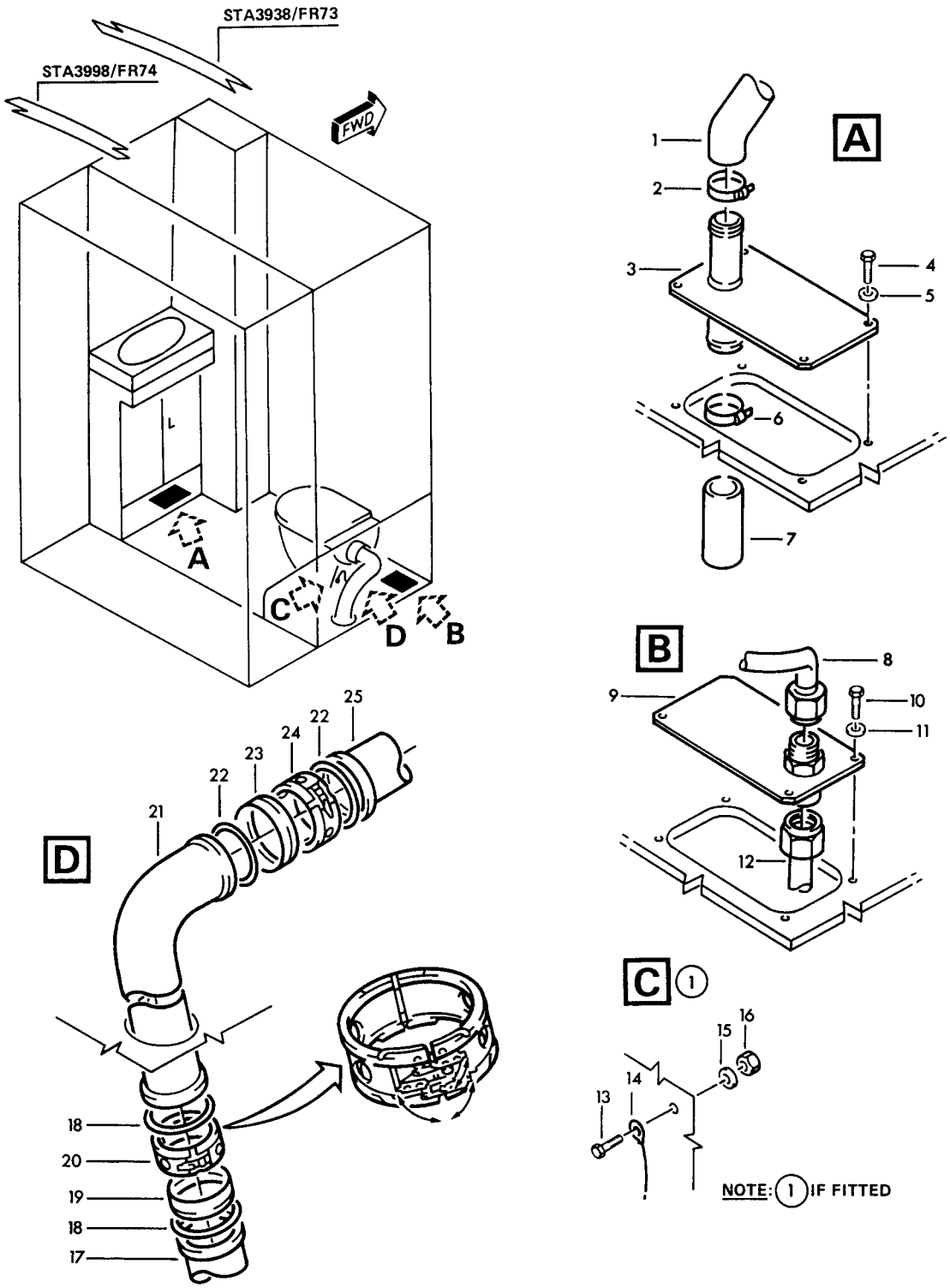
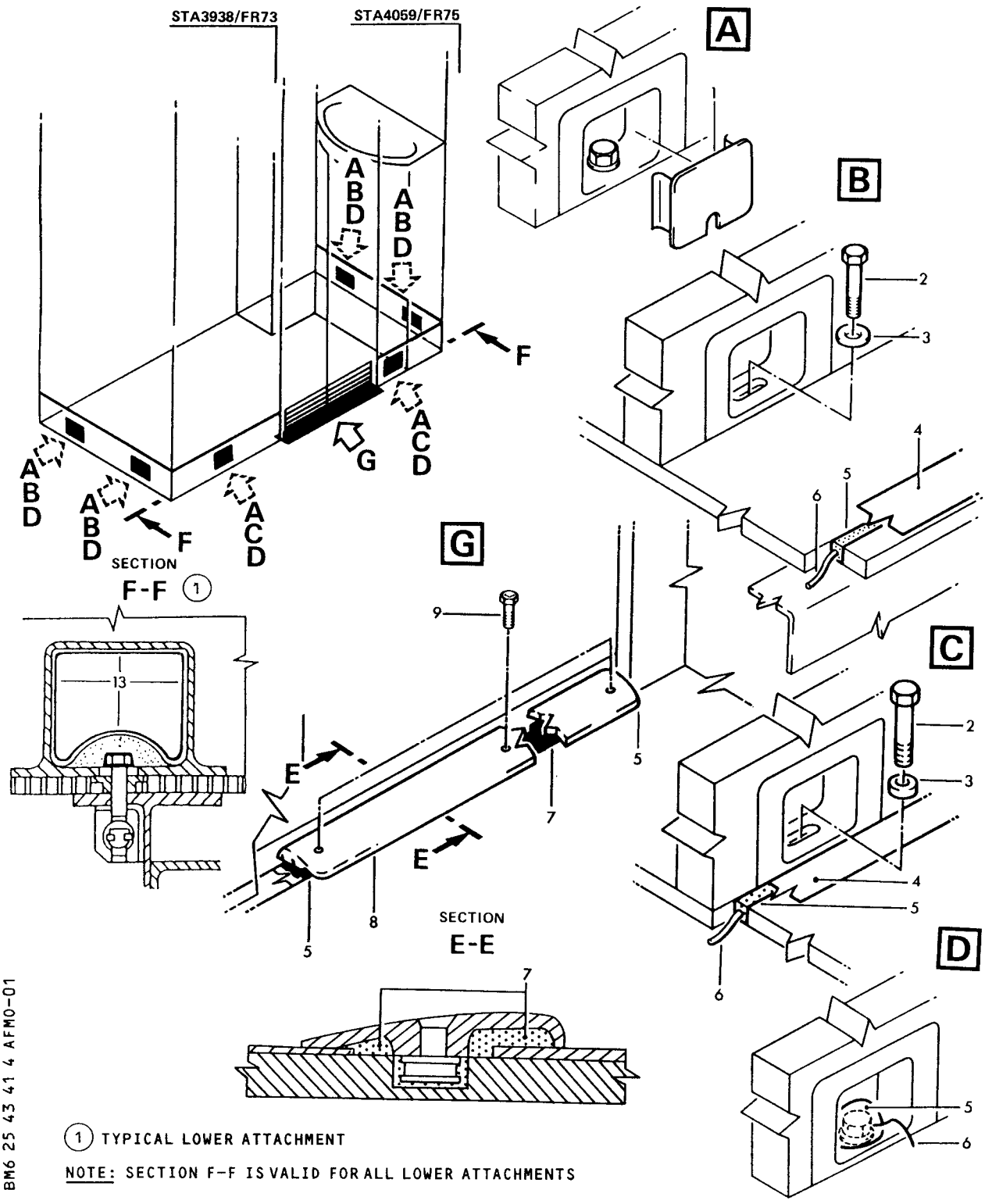
Upper Connections
Figure 401




Water/Waste Connections
Figure 402




(1) TYPICAL LOWER ATTACHMENT

NOTE: SECTION F-F IS VALID FOR ALL LOWER ATTACHMENTS

Lower Attachments
Figure 403

(a)Release sealant (5) from gaps between lavatory floor and cabin floor by pulling embedded cord (6).

WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(b)Lift and slide lavatory clear.

NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

C. Preparation for Installation

(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.

(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation

(1)Prepare lavatory area for installation (Ref. Fig. 403, ).

(a)Visually inspect structure for damage and corrosion.

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(b)Remove all traces of old sealant, using cleaning agent (Mat. No. 11-003).

(c)Inspect and if necessary, replace tape strips (12) (Mat. No. 08-005).

NOTE : Tape strips (12) are to be 2.0 mm (0.08 in.) thick and installed on aircraft structure.

WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

(2)Position lavatory assembly.

NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

(3)Install lower attachments (Ref. Fig. 403, ).

NOTE : Do not tighten bolts and screws at this stage.

(a)Apply Common Grease (Mat. No. 04-001) on the threads of bolts (11, 2).

(b)Install bolts (2) and washers (3).

(c)In aft cargo compartment secure lavatory assembly to floor structure, using bolts (11) and washers (10).

(4)Tighten all bolts and screws.

(a)To prevent corrosion, preserve lavatory fittings with Storage Preservation (13) (Mat. No. 15-008).

NOTE : Use a brush for greasing the fittings.

(5)Install upper connections (Ref. Fig. 401).

(a)Install plates (14) between lavatory ceiling (15) and lavatory extension ceiling (16) using screws (12) and washers (13).

(b)Release tie-rods (11) from aircraft structure and connect tie-rods (11), using pip pins (10), adjust tie-rods (11) if necessary.

(c)Install bracket (9) using screws (7) and washers (8).

(d)Connect hose (6) with clamps (5).

(e)Connect hose (4) with clamp (3).

(6)Connect water/waste connections (Ref. Fig. 402).

NOTE : Wrap sealing tape (Mat. No. 05-022) around threads where hoses and tubes are to be connected.

(a)Apply release agent (Mat. No. 05-013) to surface where connection plates (3, 9) are to be installed.

(b)Install connection plates (3, 9), with washers (5, 11) and

bolts (4, 10).
NOTE : Do not tighten bolts at this stage.
(c)Connect supply line (8).
(d)Connect hose (1) using clamp (2).
(e)Connect bonding strap (14) using bolt (13), washer (15) and nut (16) (Ref. 20-28-11, P. Block 1).
(f)Position pipe (21) and connect to pipe (25), using new O-rings (22), sleeve (23) and clamshell (24).
NOTE : Clamshell closure locks automatically when two halves are snapped together and it cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch.
Axial adjustment 6.35 mm (0.25 in.) minimum, angular misalignment for full coupling 4°.
NOTE : The following steps (g) thru (j) are to be carried out in aft cabin underfloor compartment.
(g)Connect hose (7), using clamp (6).
(h)Connect supply line (12).
(j)Position new O-rings (18) and connect pipe (17) to pipe (21) with sleeve (19) and clamshell (20).
(k)At this stage tighten all bolts (4, 10).
(l)Seal contour edges of connection plates (3, 9), with sealant (Mat. No. 09-016).
(7)Seal lavatory assembly (Ref. Fig. 403, ).
(a)Lay length of cord (6) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus in gap between lavatory floor and surrounding floor panels.
(b)Apply sealant (5) (Mat. No. 09-016) to fill gap.
NOTE : Do not apply sealant to cord surplus length.
(c)Cover sealant with tape (4) (Mat. No. 05-015).
(d)Lay length of cord (6) (Mat. No. 05-016) in loops in each attach fitting cavity and apply sealant (5) (Mat. No. 09-016).
NOTE : When applying sealant leave approx. 100 mm (4 in.) length of cord exposed.
(8)Install nontextile floor covering as required (Ref. 25-28-12, P. Block 401).
(9)Install threshold (8) (Ref. Fig. 403).
(a)Apply sealant (5) (Mat. No. 09-016) to underside of threshold (8).
(b)Position threshold, coat screws (9) with thread sealant (Mat. No. 05-002) and install.
(c)At both ends of threshold, seal gaps, using sealant (5) (Mat. No. 09-016).
(10)Install cover plates (1) (Ref. Fig. 403).
(11)Remove protective caps and connect electrical connectors 5950 VC-A (2) and 5949 VC-A (1) (Ref. Fig. 401).
(12)Replenish potable water system as required (Ref. 12-15-38, P. Block 1).
(13)Pressurize potable water system (Ref. 38-40-00, P. Block 301) and open aft water system shutoff valves.
(14)Check all lavatory water and waste line connections for leaks. Leaks are not permissible.
(15)Install toilet shroud (Ref. 25-45-11, P. Block 401).
(16)Close lavatory ceiling access panel and secure fasteners.

(17)Install smoke detector (Ref. 26-17-11, P. Block 401).
(18)Close ceiling panels in aft cargo compartment between frames 71 and 75.

E. Test
(1)Connect electrical ground power unit and energize aircraft network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Carry out operational test of lavatory X interface system (Ref. 25-40-00, P. Block 501).
(4)Carry out operational test of razor socket (Ref. 25-44-00, P. Block 501).
(5)Carry out operational test of vacuum toilet system (Ref. 38-35-00, P. Block 501).

F. Close-Up
(1)Adjacent to lavatory side wall, install the fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(2)Between AFT passenger/crew doors, install utility area ceiling panel (Ref. 25-23-13, P. Block 401).
(3)At lavatory walls, install pelmet and secure with quick-release fasteners.
(4)Install curtain rails to lavatory (if fitted) (Ref. 25-26-00, P. Block 1).
(5)Install carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(6)Install center overhead stowage in lavatory area (Ref. 25-24-21, P. Block 401).
(7)Install passenger seat in lavatory area (Ref. 25-21-00, P. Block 401).
(8)Install cabin attendant seat (if removed) (Ref. 25-21-61, P. Block 401).
(9)Close water service panel access door 136BR.
(10)Remove access platform.
(11)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

## LAVATORY Y - REMOVAL/INSTALLATION

**WARNING** : LAVATORY WEIGHS APPROX. 100 kg (200 lb.).
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reason for the Job

A. Gaining access to the aircraft structure.

B. Lavatory replacement or repair.

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 4 m (13 ft.) |
| B. | O-Rings |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Protective Caps |
| E. | Electrical Ground Power Unit - 3-Phase 115/200 V, 400 Hz |
| F. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| M. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| N. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| P. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| Q. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-23-21, P. Block 401 | Upper Sidewall Panels |
| - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-00, P. Block 1 | Floor Covering |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |
| - 25-45-11, P. Block 401 | Toilet Shroud |
| - 26-17-11, P. Block 401 | Smoke Detector |
| - 38-40-00, P. Block 301 | Air Supply |

3. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COMP-PASSENGER ADDRESS | 5RY | B15 |
| 22VU | PASSENGER OXYGEN CTL & WARN | 1WR | H24 |
| 22VU | EMER LT-TOILETS | 1WL | E26 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGNS/SEAT BELTS RETURN TO SEAT | 29WJ | P82 |
| 811VU | CALL SYSTEM/LAVATORY | 29LN | B16 |
| 811VU | VACUUM CLEANER SOCKET | 5ME | C17 |
| 811VU | VACUUM CLEANER SOCKET | 6ME | C18 |
| 811VU | LAVATORY AFT/LIGHT | 11LQ | B2 |
| 811VU | LAVATORY AFT/HOT WATER | 11MB | B4 |
| 811VU | LAVATORY AFT/HOT WATER | 13MB | B5 |
| 811VU | LAVATORY AFT/OCCUPIED | 11WJ | B6 |
| 811VU | LAVATORY AFT/SHAVER SOCKET | 4MT | B7 |
| 811VU | VACUUM BLOWER/LH | 110MG | C5 |

(2)Remove passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(3)Remove carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(4)Remove nontextile floor covering in lavatory area, as required (Ref. 25-28-11, P. Block 401).
(5)Remove curtain rails from lavatory, if fitted (Ref. 25-26-00, P. Block 1).
(6)At AFT passenger/crew door (LH), remove utility area ceiling panel (Ref. 25-23-13, P. Block 401).
(7)Adjacent to lavatory front wall, remove the following:
(a)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(8)Relieve water system pressure.
(a)Position access platform.
(b)Open water service panel access door 136BR.
(c)Turn fill/overflow and drain valve control handle to position DRAIN and pull.
NOTE : Air pressure will escape via overflow port.
(d)Turn fill/overflow and drain valve control handle until locked in position NORMAL.
(9)In lavatory, release fasteners and open ceiling access panel.
(10)Remove smoke detector (Ref. 26-17-11, P. Block 401).
(11)Remove toilet shroud (Ref. 25-45-11, P. Block 401).

B. Removal
(Ref. Fig. 401)

**ON A/C 101-200,

Post SB 21-2050 For A/C 101-200,

(Ref. Fig. 402)

**ON A/C 101-200,

(1)Between STA3885/FR72 and STA3938/FR73 disconnect electrical connectors 5937VC-A (1) and 5938VC-A (2) and fit protective caps.
(2)Remove upper connections.
(a)Remove clamps (3) and disconnect hose (4).
(b)Remove clamps (5) and disconnect hose (6).
(c)Remove screws (8), washers (9) and bracket (7) complete with hose (10).
(d)Remove nut (12), washers (13), bolt (15), distance piece (14) and disconnect tie-rod (11). Secure tie-rod (11) to aircraft structure.

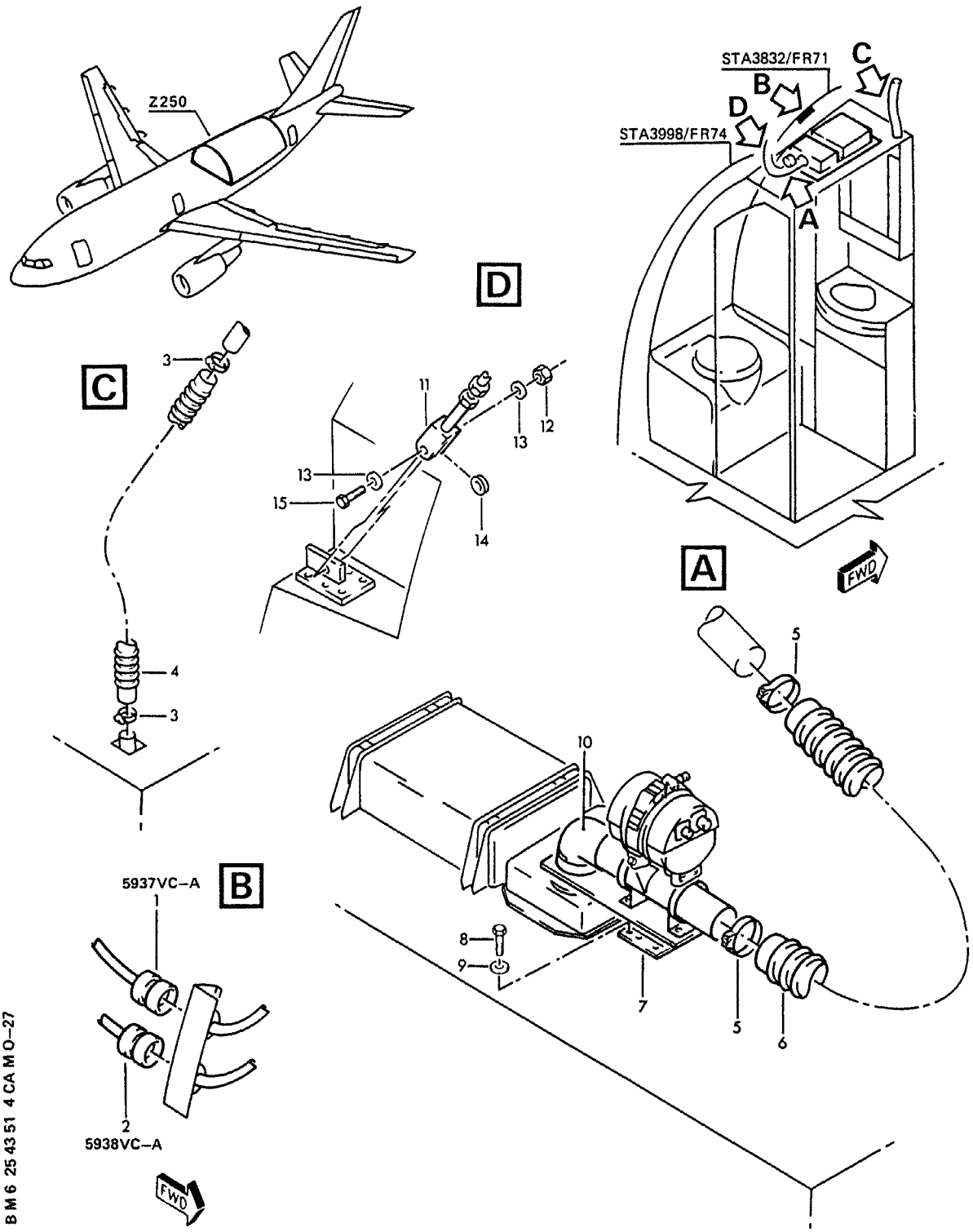
**ON A/C 101-200,

Post SB 21-2050 For A/C 101-200,

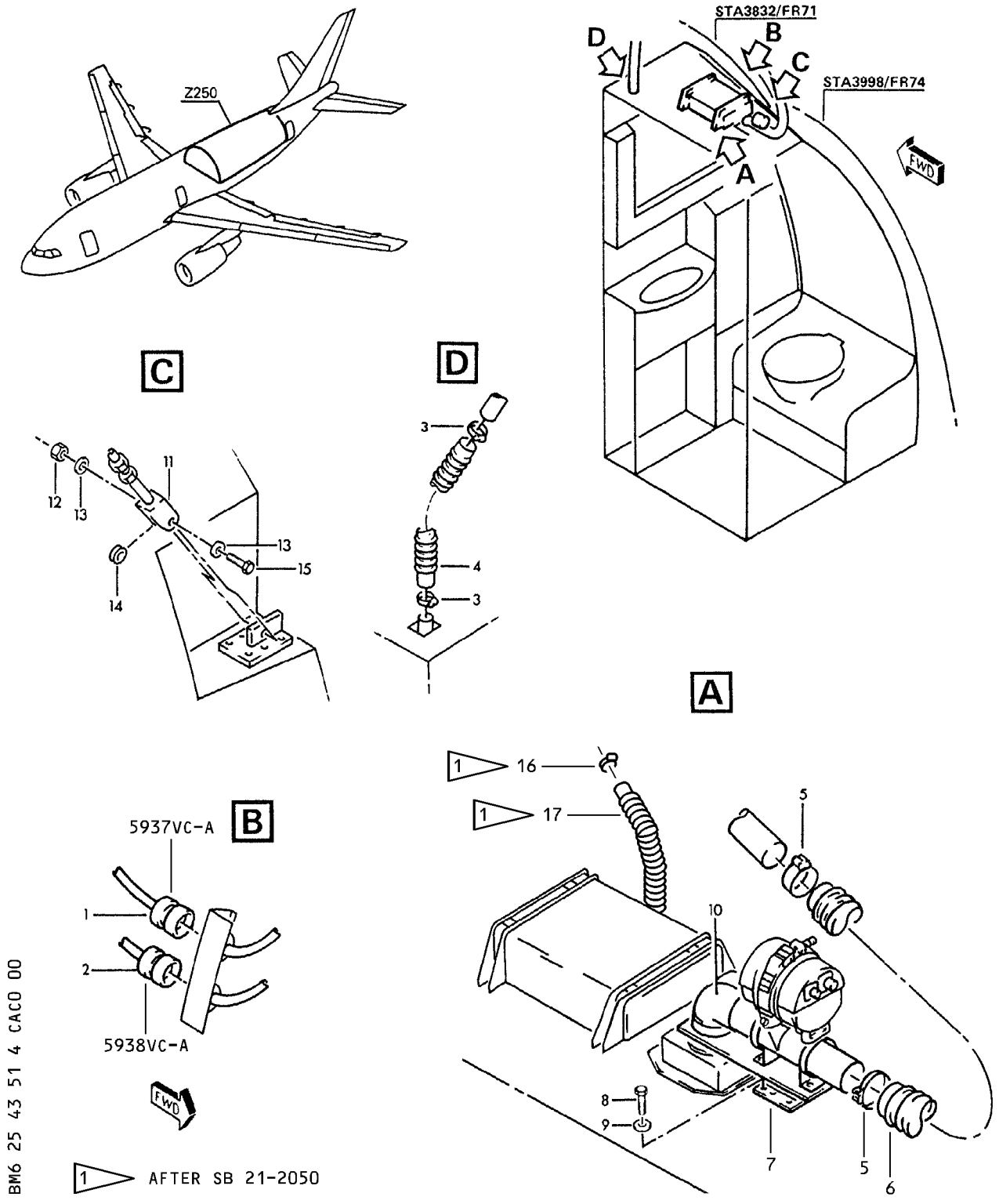
(1)Between STA3885/FR72 and STA3938/FR73 disconnect electrical connectors 5937 VC-A (1) and 5938 VC-A (2) and fit protective caps
(2)Remove upper connections.
(a)Remove clamps (3) and disconnect hose (4).
(b)Remove clamps (5) and disconnect hose (6).
(c)Remove screws (8), washers (9) and bracket (7) complete with hose (10).
(d)Remove nut (12), washers (13), bolt (15), distance piece (14), and disconnect tie-rod (11). Secure tie-rod (11) to aircraft structure.
(e)Remove clamp (16) from air distribution duct.
(f)Secure flexible hose (17) to lavatory ceiling.

**ON A/C 101-200,

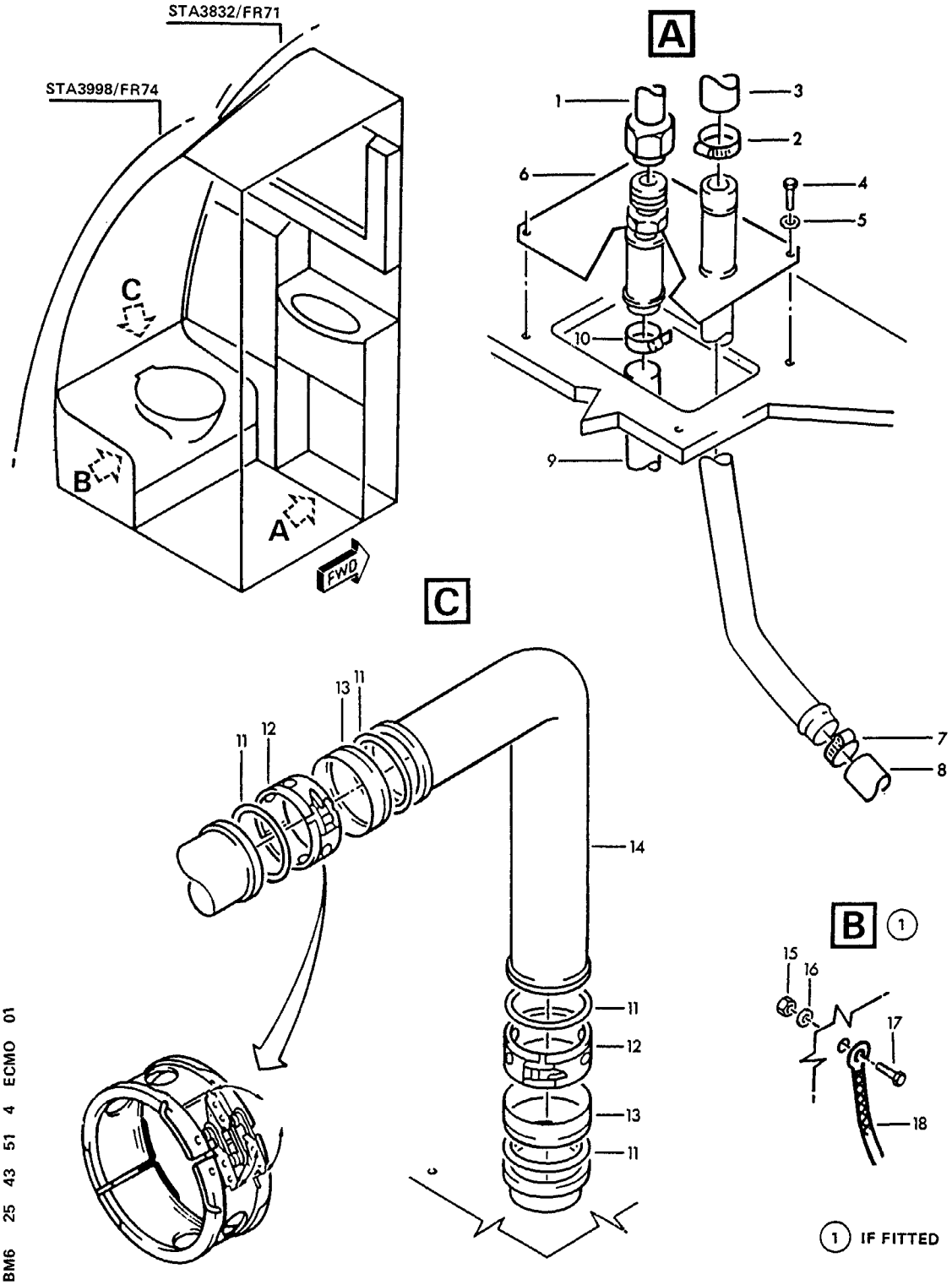
(3)Disconnect water/waste connections (Ref. Fig. 403).
NOTE : Steps (a) and (b) are carried out in Aft underfloor compartment (Z170) and steps (c) thru (g) in lavatory.
(a)Loosen clip (7) and disconnect supply line (8).
(b)Loosen clip (10) and disconnect waste line (9).
(c)Release clamshells (12).
NOTE : Quick-disconnect action of clamshell enables assembly and removal with one hand. All three latch pawls must be lifted simultaneously to disengage the latch.
(d)Remove sleeves (13), O-rings (11) and disconnect pipe (14).




Upper Connections
Figure 401




Upper Connections
Figure 402

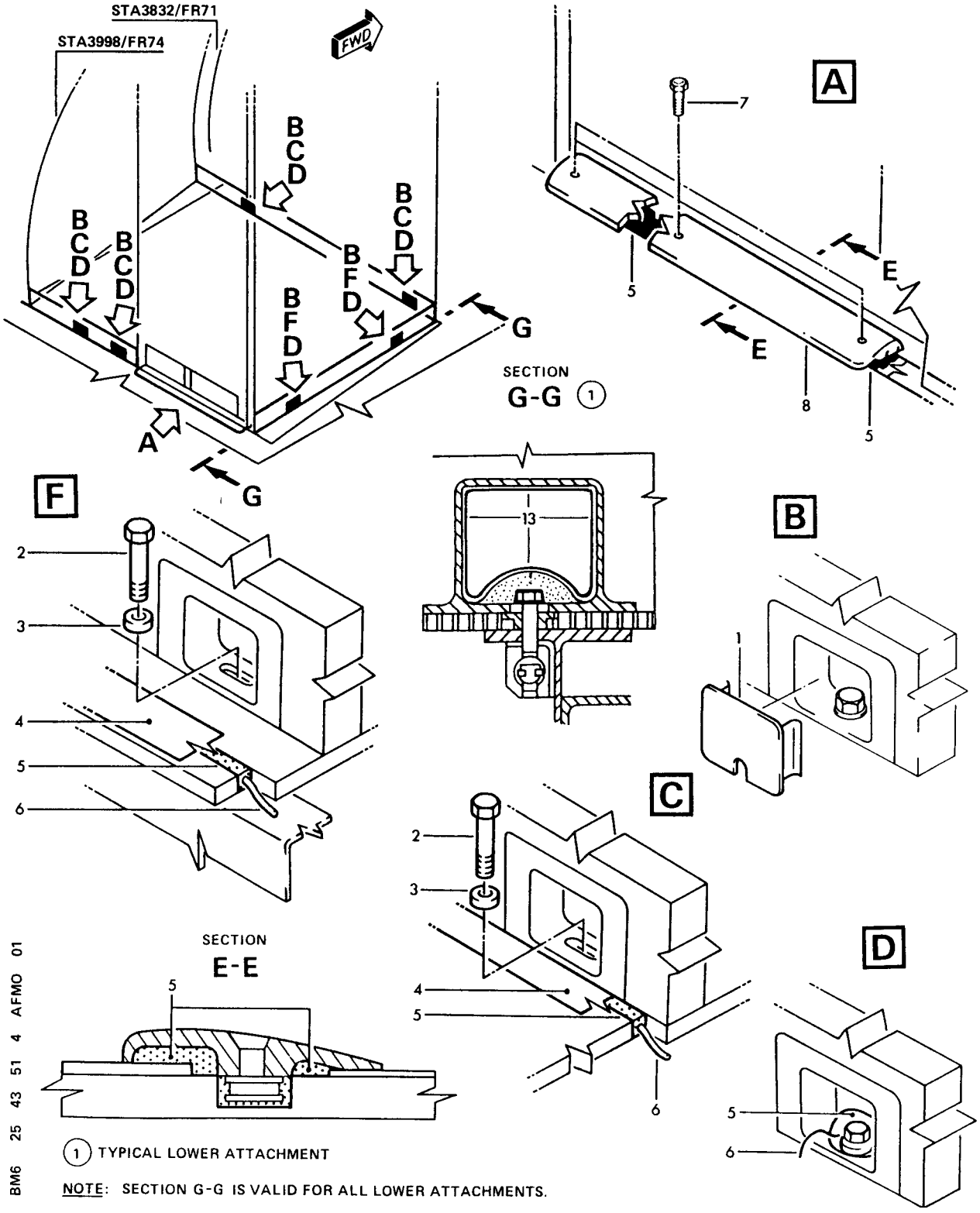



Water/Waste Connections
Figure 403

Discard O-rings.
(e)Remove nut (15), washer (16), bolt (17) and disconnect bonding strap (18), if fitted.
(f)In sanitary cabinet, loosen clip (2) and disconnect hose (3).
(g)Disconnect supply line (1).
(h)Remove bolts (4), washers (5) and connection plate (6).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(j)Remove sealant remnants from plate (6), using cleaning agent (Mat. No. 11-003).
(4)Remove lower attachments.
(Ref. Fig. 404)
(Ref. Fig. 405)
(a)Remove screws (7) and threshold (8).
(b)Remove cover plates (1).
NOTE : Use a suitable tool for removing the cover plates.
(c)At lavatory base, remove tape (4).
(d)Remove protection wax (13).
(e)Release sealant (5) at lower attach points by pulling embedded cord (6).
(f)Remove bolts (2) and washers (3).
(g)In aft cabin underfloor compartment, remove bolts (10) and washers (11).
(5)Remove lavatory assembly.
(a)Release sealant (5) from gaps between lavatory floor and cabin floor by pulling embedded cord (6).
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(b)Lift and slide lavatory clear.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

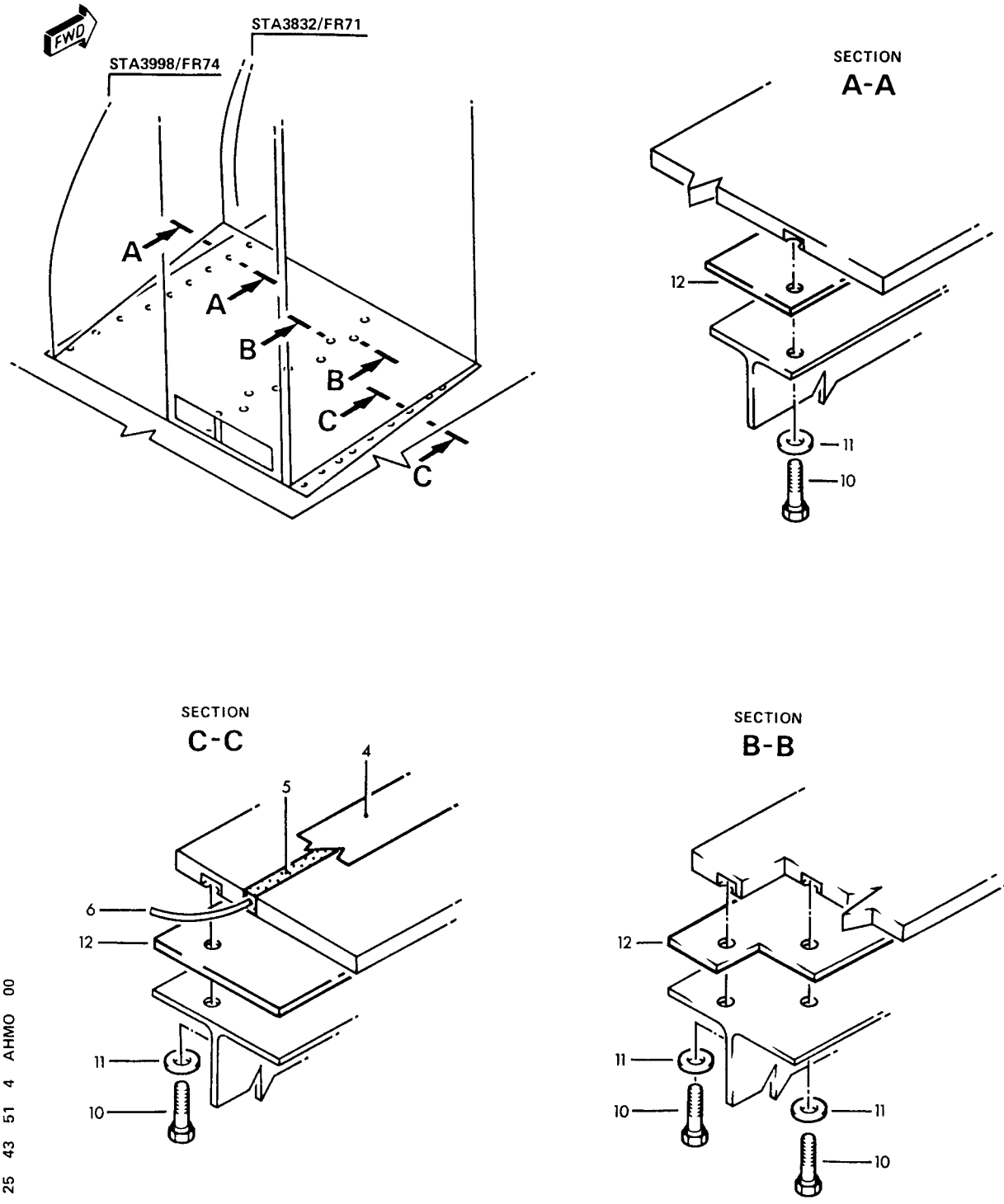
D. Installation
(1)Prepare lavatory area for installation (Ref. Fig. 404, 405).
(a)Visually inspect structure for damage and corrosion.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(b)Remove all traces of old sealant, using cleaning agent (Mat. No. 11-003).
(c)Check for correct position and condition of inserts located on lavatory floor.
(d)Inspect and, if necessary, replace tape strips (12) (Mat. No. 08-005).
NOTE : Tape strips (12) are to be 2.0 mm (0.08 in.) in thickness and installed on aircraft structure.
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Position lavatory assembly.
NOTE : Place strips of Teflon or similar material under lavatory to




(1) TYPICAL LOWER ATTACHMENT

NOTE: SECTION G-G IS VALID FOR ALL LOWER ATTACHMENTS.

Lower Attachments
Figure 404

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Lavatory Floor Attachments
Figure 405

ease sliding.
(3)Install lower attachments.
NOTE : Do not tighten bolts and screws at this stage.
(a)Install bolts (2) and washers (3).
(b)Apply Common Grease (Mat. No. 04-001) on the threads of bolts (2).
(c)In aft cabin underfloor compartment, secure lavatory assembly to floor structure using bolts (10) and washers (11).
(4)Tighten all bolts and screws.
(5)Install upper connections.
(Ref. Fig. 401)

**ON A/C 101-200,

Post SB 21-2050 For A/C 101-200,

(Ref. Fig. 402)

**ON A/C 101-200,

(a)Release tie-rod (11) from aircraft structure and connect tie-rod (11) with distance piece (14), bolt (15), washers (13) and nut (12). Adjust tie-rod (11), if necessary.
(b)Install bracket (7), complete with hose (10), using screws (8) and washers (9).
(c)Connect hose (6) using clamps (5).
(d)Connect hose (4) using clamps (3).

**ON A/C 101-200,

Post SB 21-2050 For A/C 101-200,

(a)Release tie-rod (11) from aircraft structure and connect tie-rod (11), distance piece (14), washers (13), bolt (15) and nut (12). Adjust tie-rod (11) ,if necessary.
(b)Install bracket (7), complete with hose (10), using screws (8) and washers (9).
(c)Connect hose (6) using clamps (5).
(d)Connect hose (4) using clamps (3).
(e)Connect flexible hose (17) to cabin air distribution duct using clamp (16).

**ON A/C 101-200,

(6)Connect water/waste connections (Ref. Fig. ).
NOTE : Wrap sealing tape (Mat. No. 05-022) around threads where hoses and tubes are to be connected.
(a)Apply release agent (Mat. No. 05-013) to surface, where connection plate (6) is to be installed.
(b)Install connection plate (6) using washers (5) and bolts (4).

NOTE : Do not tighten bolts at this stage.

(c)In sanitary cabinet connect hose (3) using clip (2).

(d)Connect supply line (1).

(e)Connect bonding strap (18) using bolt (17), washer (16) and nut (15), if removed (Ref. 20-28-11, P. Block 1).

NOTE : The following steps (f) and (g) are carried out in Aft underfloor compartment (Z170).

(f)Connect supply line (9) using clip (10).

(g)Connect waste line (8) using clip (7).

(h)At rear of toilet unit, with new O-rings (11), assemble pipe (14) using sleeves (13) and clamshells (12).

NOTE : Clamshell locks automatically when two halves are snapped together and cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch.
Axial adjustment 6.35 mm (0.25 in.) minimum, angular misalignment for full coupling ±4 °.

(j)At this stage tighten all bolts (4).

(k)Seal contour edges of connection plate (6) with sealant (Mat. No. 09-016).

(7)Seal lavatory assembly (Ref. Fig. 404, 405).

(a)Lay length of cord (6) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus in gap between lavatory floor and surrounding floor panels.

(b)Apply sealant (5) (Mat. No. 09-016) to fill gap.

NOTE : Do not apply sealant to cord surplus length.

(c)Cover sealant with tape (4) (Mat. No. 05-015).

(d)Lay length of cord (6) (Mat. No. 05-016) in loops in each attach fitting cavity and apply sealant (5) (Mat. No. 09-016).

NOTE : When applying sealant, leave approx. 100 mm (4 in.) length of cord exposed.

(e)To prevent corrosion, preserve Lavatory fittings with Storage Preservation (13) (Mat. No. 15-008).

NOTE : Use a brush for greasing the fittings.

(8)Install nontextile floor covering, as required (Ref. 25-28-12, P. Block 401).

(9)Install threshold (8).
(Ref. Fig. 404)

(a)Apply sealant (5) (Mat. No. 09-016) to underside of threshold (8).

(b)Position threshold, coat screws (7) with thread sealant (Mat. No. 05-002) and install.

(c)At both ends of threshold, seal gaps using sealant (5) (Mat. No. 09-016).

(10)Install cover plates (1).

(11)Remove protective caps and connect electrical connectors (1) 5937VC-A (1) and 5938VC-A (2) (Ref. Fig. 401).

(12)Replenish potable water system, as required (Ref. 12-15-38, P. Block 1).

(13)Pressurize potable water system (Ref. 38-40-00, P. Block 301) and open aft water system shutoff valves.

(14)Check all lavatory water and waste line connections for leaks. Leaks are not permissible.

(15)Install toilet shroud (Ref. 25-45-11, P. Block 401).

(16)Install smoke detector (Ref. 26-17-11, P. Block 401).
(17)Close lavatory ceiling access panel and secure fasteners.

E. Test
(1)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Remove safety clips and tags. Close circuit breakers opened in step 3.A.(1).
(4)Carry out operational test of lavatory Y interface system (Ref. 25-40-00, P. Block 501).
(5)Carry out operational test of razor socket (Ref. 25-44-00, P. Block 501).
(6)Carry out operational test of vacuum toilet system (Ref. 38-35-00, P. Block 501).

F. Close-Up
(1)Adjacent to lavatory front wall, install the following:
(a)Lower sidewall panel (Ref. 25-31-31, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(2)Install carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(3)Install utility area ceiling panel (Ref. 25-23-13, P. Block 401).
(4)Install passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(5)Install curtain rails, as required (Ref. 25-26-00, P. Block 1).
(6)Close water service panel access door 136BR and remove access platform.
(7)Make certain that installation area is clean and clear of tools and miscellaneous items of equipment.

## LAVATORY Z - REMOVAL/INSTALLATION

**WARNING** : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
**WARNING** : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
**CAUTION** : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

### 1. Reasons for the Job

A. Gaining access to aircraft structure

B. Lavatory replacement or repair

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, up to 4 m (13 ft.) |
| B. | O-Rings |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Protective Caps |
| E. | Electrical Ground Power Unit - 3-Phase 115/200 V, 400 Hz |
| F. Material No. 04-001 | Common Greases (Ref. 20-31-00) |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| J. Material No. 05-015 | Special Materials (Ref. 20-31-00) |
| K. Material No. 05-016 | Special Materials (Ref. 20-31-00) |
| L. Material No. 05-022 | Special Materials (Ref. 20-31-00) |
| M. Material No. 08-005 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| N. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| P. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| Q. Material No. 15-008 | Storage Preservation (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 12-15-38, P. Block 1 | Replenishing Potable Water |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| - 25-23-13, P. Block 401 | Utility Area Ceiling Panels |
| - 25-23-21, P. Block 401 | Upper Sidewall Panels |
| - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 25-23-63, P. Block 401 | Fluorescent Lighting Cover |
| - 25-26-00, P. Block 1 | Curtains and Partitions |
| - 25-28-00, P. Block 1 | Floor Covering |
| - 25-28-12, P. Block 401 | Nontextile Floor Covering |
| - 25-40-00, P. Block 501 | Lavatories |
| - 25-44-00, P. Block 501 | Razor Sockets |
| - 25-45-11, P. Block 401 | Toilet Shroud |
| - 26-17-11, P. Block 401 | Smoke Detector |
| - 38-35-00, P. Block 501 | Vacuum Toilet System |

3. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | COMP/PASSENGER ADDRESS | 5RY | B15 |
| 22VU | PASSENGER OXYGEN & WARN | 1WR | H24 |
| 22VU | EMER LT/TOILETS | 1WL | E26 |
| 131VU | SMOKE DET LAV | 1WQ | E51 |
| 132VU | LIGHTING/PASSENGER SIGN/SEAT BELTS & RETURN TO SEAT | 29WJ | P82 |
| 811VU | CALL SYSTEM/LAVATORY | 29LN | B16 |
| 811VU | VACUUM CLEANER SOCKET | 5ME | C17 |
| 811VU | VACUUM CLEANER SOCKET | 6ME | C18 |
| 811VU | LAVATORY AFT/LIGHT | 11LQ | B 2 |
| 811VU | LAVATORY AFT/HOT WATER | 11MB | B 4 |
| 811VU | LAVATORY AFT/HOT WATER | 13MB | B 5 |
| 811VU | LAVATORY AFT/OCCUPIED | 11WJ | B 6 |
| 811VU | LAVATORY AFT/SHAVER SOCKET | 4MT | B 7 |
| 811VU | VACUUM BLOWER/RH | 10MG | C 8 |

(2)Remove passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(3)Remove carpet floor covering in lavatory area, as required (Ref. 25-28-00, P. Block 1).
(4)Remove nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).
(5)Remove curtain rails from lavatory (if fitted) (Ref. 25-26-00, P. Block 1).
(6)At AFT passenger/crew door (RH), remove utility area ceiling panel (Ref. 25-23-13, P. Block 401).
(7)Adjacent to lavatory front wall remove the following:
(a)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(8)Relieve water system pressure.
(a)Position access platform.
(b)Open water service panel access door 136BR.
(c)Turn fill/overflow and drain valve control handle to position DRAIN and pull.
NOTE : Air pressure will escape via overflow port.
(d)Turn fill/overflow and drain valve control handle until locked in position NORMAL.
(9)In lavatory, release fasteners and open ceiling access panel.
(10)Remove smoke detector (Ref. 26-17-11, P. Block 401).
(11)Remove toilet shroud (Ref. 25-45-11, P. Block 401).

B. Removal
(1)Between STA3885/FR72 and STA3938/FR73 disconnect electrical connectors 5941 VC-A (1) and 5942 VC-A (2) and fit protective caps (Ref. Fig. ).
(2)Remove upper connections (Ref. Fig. ).
(a)Remove clamps (3) and disconnect hose (4).
(b)Remove clamps (5) and disconnect hose (6).
(c)Remove screws (8), washers (9) and bracket (7) complete with hose (10).
(d)Remove nut (12), washers (13), bolt (15), distance piece (14), and disconnect tie-rod (11). Secure tie-rod (11) to aircraft structure.

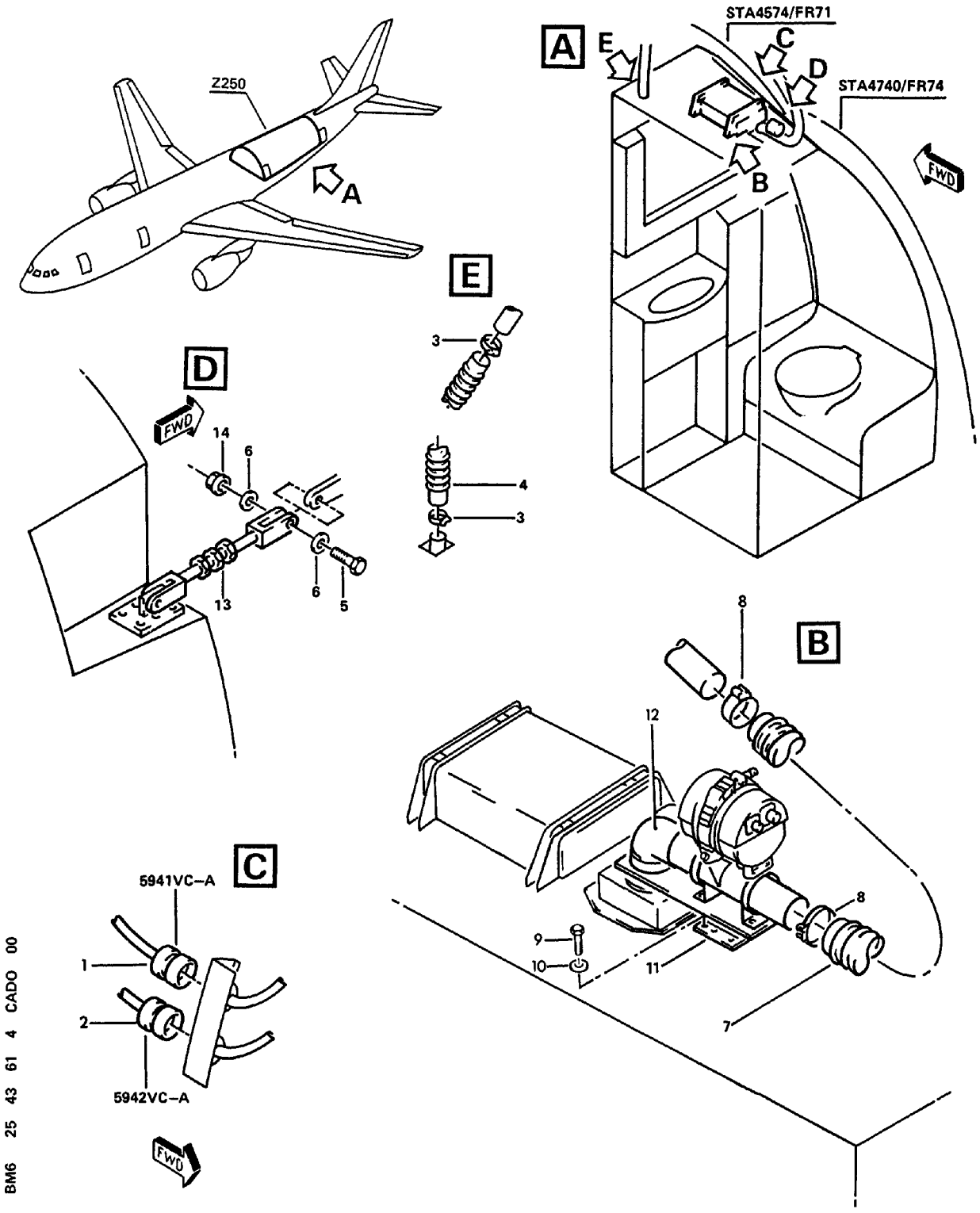
**ON A/C 101-200,

Post SB 21-2050 For A/C 101-200,

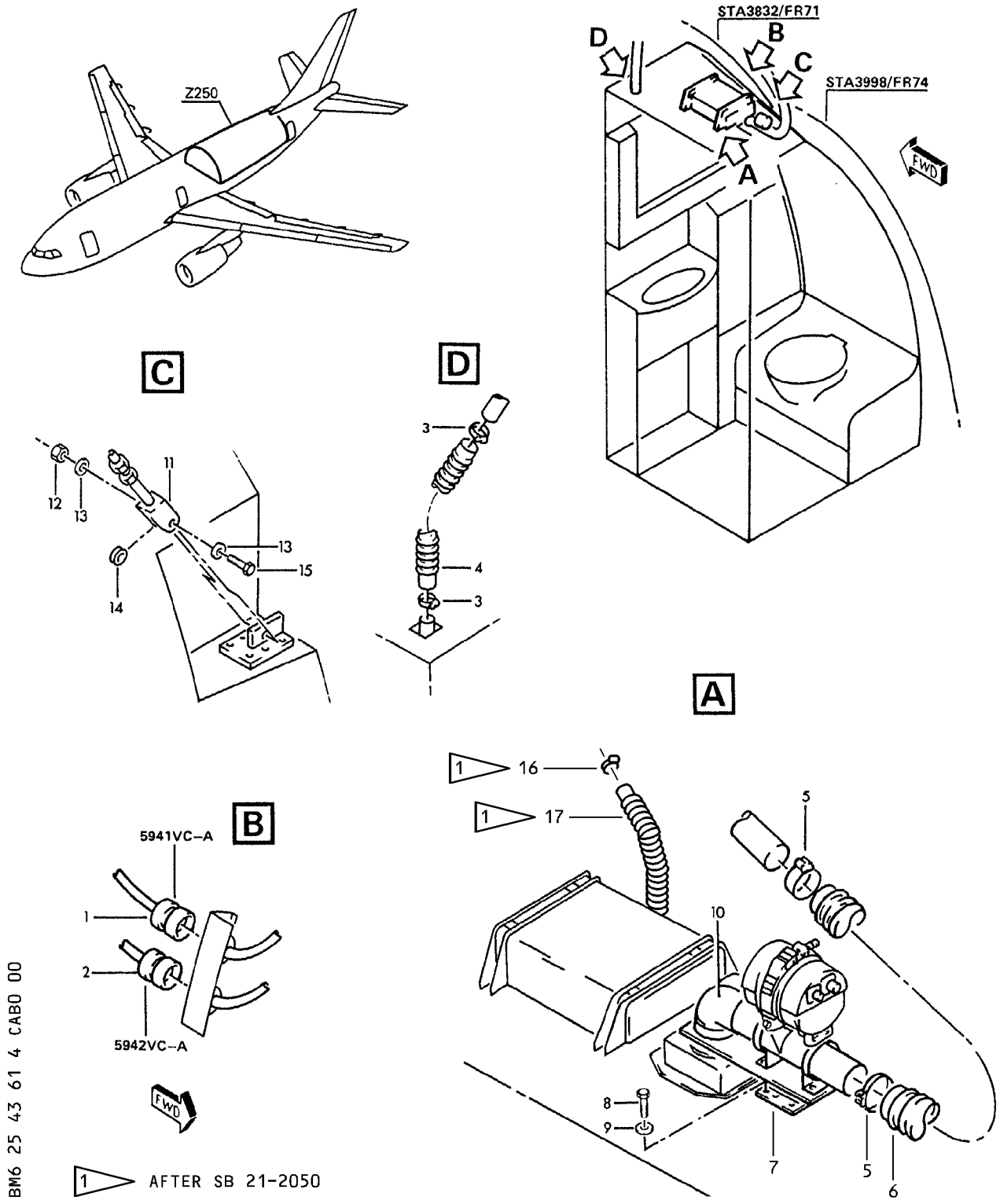
B. Removal
(1)Between STA3885/FR72 and STA3938/FR73 disconnect electrical connectors 5941 VC-A (1) and 5942 VC-A (2) and fit protective caps (Ref. Fig. 402).
(2)Remove upper connections (Ref. Fig. 402).
(a)Remove clamps (3) and disconnect hose (4).
(b)Remove clamps (5) and disconnect hose (6).
(c)Remove screws (8), washers (9) and bracket (7) complete with hose (10).
(d)Remove nut (12), washers (13), bolt (15), distance piece (14), and disconnect tie-rod (11). Secure tie-rod (11) to aircraft structure.
(e)Remove clamp (16) from air distribution duct.
(f)Secure flexible hose (17) to lavatory ceiling.

**ON A/C 101-200,

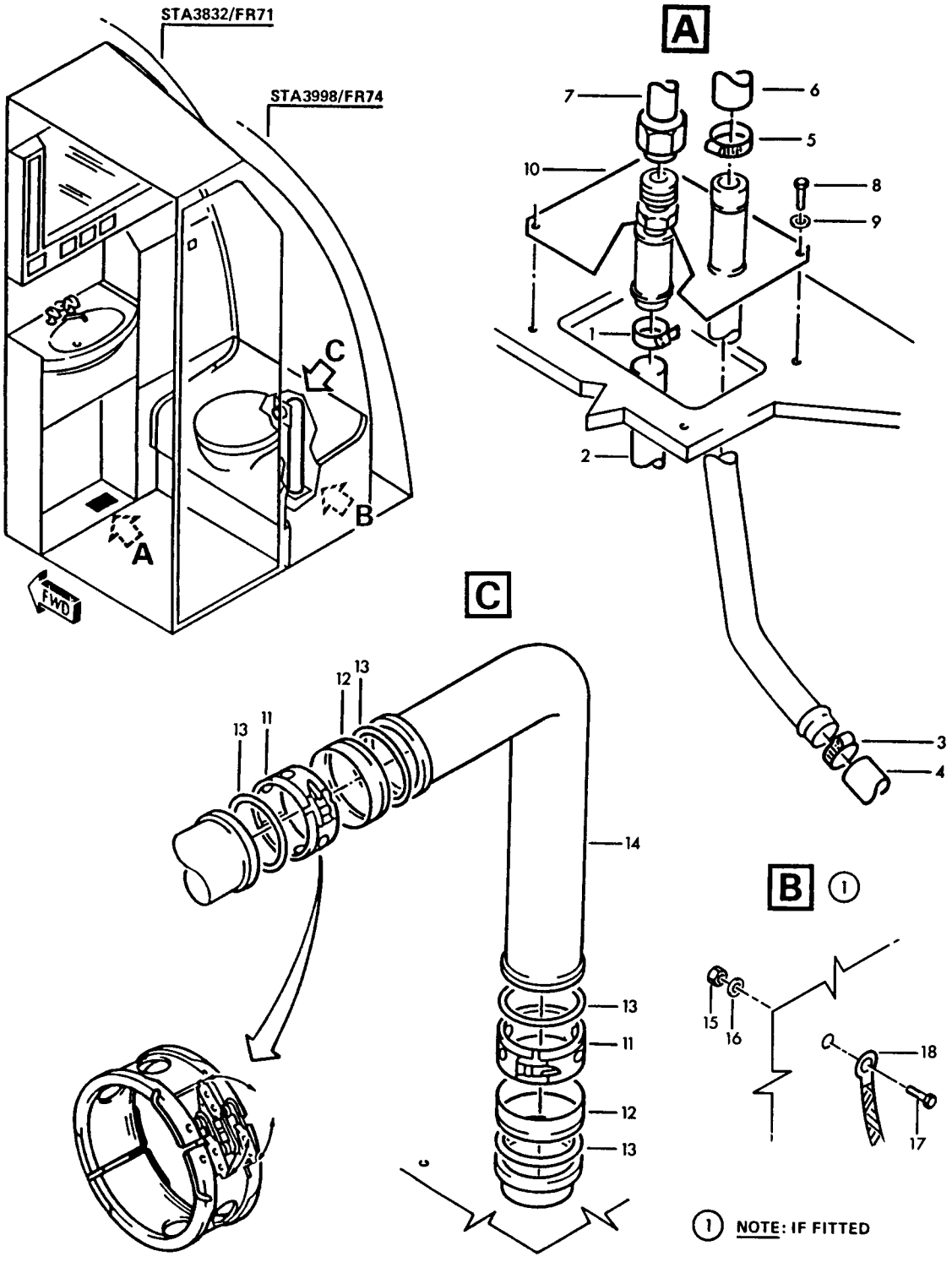
(3)Disconnect water/waste system (Ref. Fig. 403).
NOTE : Steps (a) and (b) are carried out in Aft underfloor compartment (Z170) and steps (c) thru (j) in lavatory.
(a)Loosen clip (1) and disconnect supply line (2).
(b)Loosen clip (3) and disconnect waste line (4).
(c)Remove nut (18), washer (19), bolt (20) and disconnect bonding strap (21), if fitted.
(d)Release clamshells (11).
NOTE : Quick-disconnect action of clamshell enables assembly and removal with one hand. All three latch pawls must be lifted simultaneously to disengage the latch.
(e)Remove sleeves (12), O-rings (13) and disconnect pipe (14). Discard O-rings (13).
(f)In sanitary cabinet, loosen clip (5) and disconnect hose (6).
(g)Disconnect supply line (7).
(h)Remove bolts (8), washers (9) and connection plate (10).
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(j)Remove sealant remnants from plate (10), using cleaning agent (Mat. No. 11-003).




Upper Connection
Figure 401




Upper Connections
Figure 402

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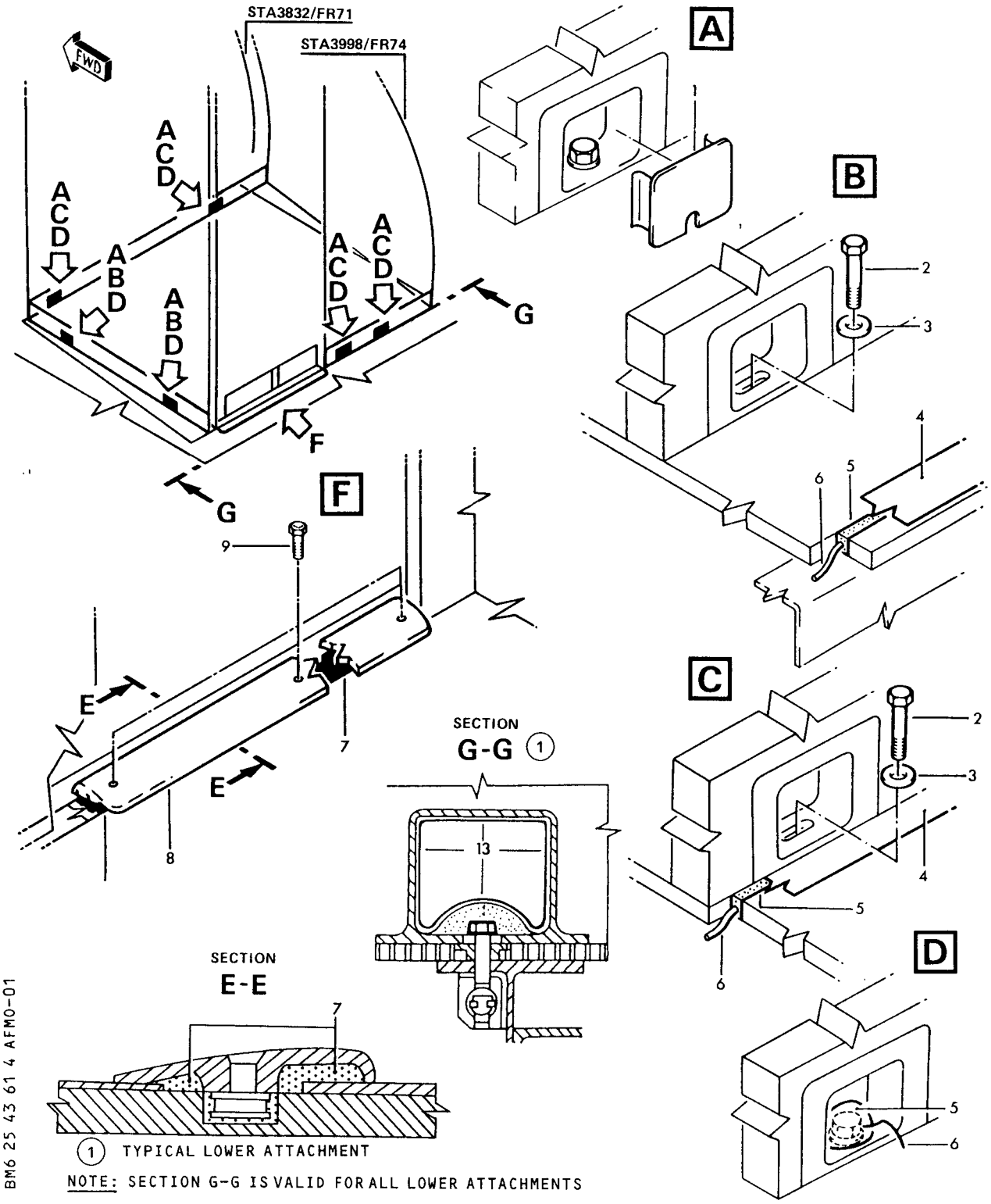
Water/Waste Connections
Figure 403

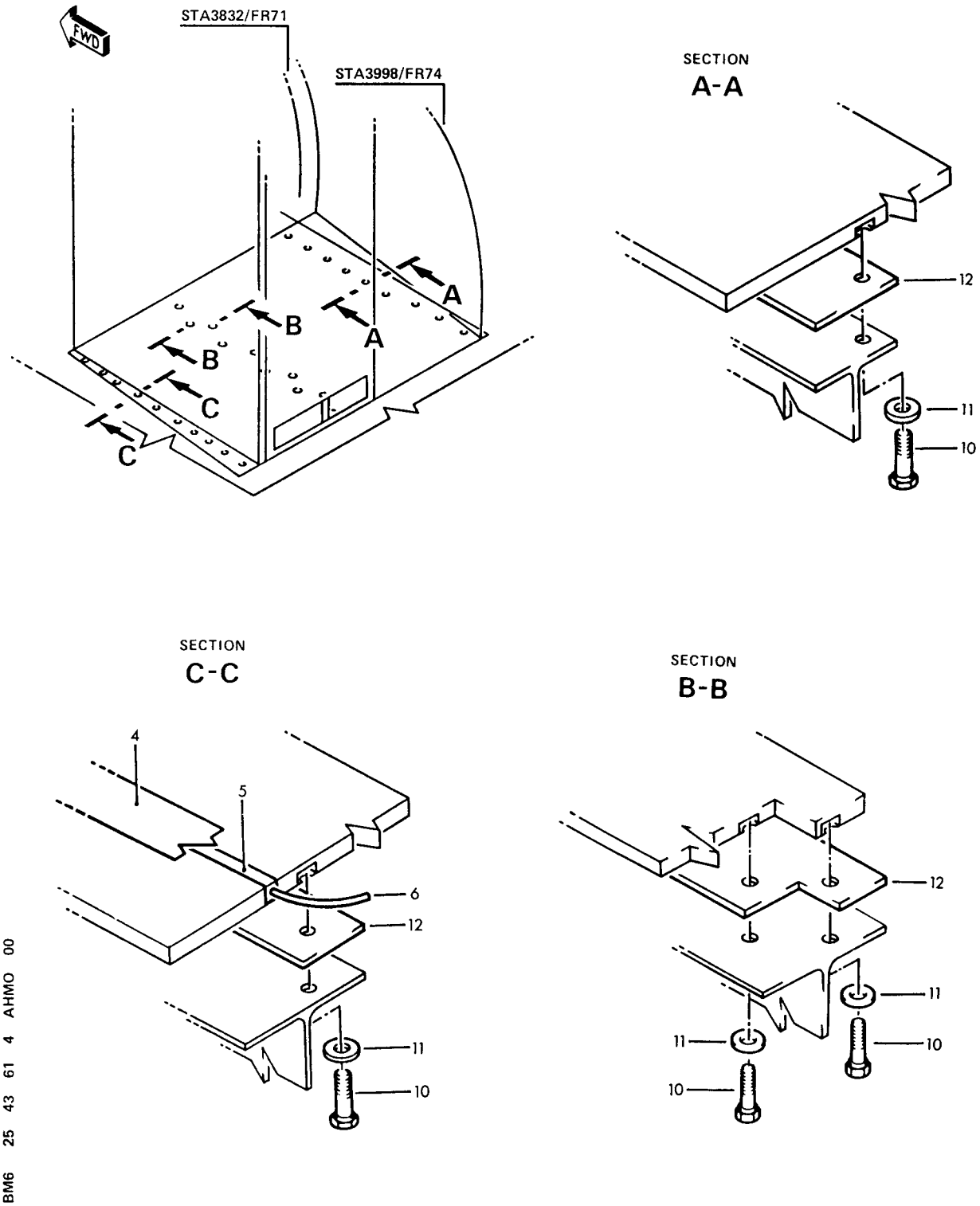
(4)Remove lower attachments (Ref. Fig. 404, 405)
(a)Remove screws (8) and threshold (7).
(b)Remove cover plates (1).
NOTE : Use a suitable tool for removing the cover plates.
(c)At lavatory base, remove tape (4).
(d)Remove protection wax (13).
(e)Release sealant (5) at lower attachment points by pulling embedded cord (6).
(f)Remove bolts (2) and washers (3).
(g)In aft cargo compartment, remove bolts (10) and washers (11) (Ref. Fig. 405).
(5)Remove lavatory assembly (Ref. Fig. 404, 405).
(a)Release sealant (5) from gaps between lavatory floor and cabin floor by pulling embedded cord (6).
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb.).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(b)Lift and slide lavatory clear.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.

C. Preparation for Installation
(1)Make certain that placards on replaced or repaired components are in correct position and in good condition.
(2)If necessary install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Prepare lavatory area for installation (Ref. Fig. 404, 405).
(a)Visually inspect structure for damage and corrosion.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.
(b)Remove all traces of old sealant using cleaning agent (Mat. No. 11-003).
(c)Check for correct position and condition of inserts located on floor.
(d)Inspect and, if necessary, replace tape strips (12) (Mat. No. 08-005).
NOTE : Tape strips (12) are to be 2.0 mm (0.08 in.) in thickness and installed on aircraft structure.
WARNING : LAVATORY WEIGHS APPROX. 100 kg (220 lb).
CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.
(2)Position lavatory assembly.
NOTE : Place strips of Teflon or similar material under lavatory to ease sliding.
(3)Install lower connection (Ref. Fig. 404).
(a)Apply common grease (Mat. No. 04-001) on the threads of bolts (10, 2).
(b)Install bolts (2) and washers (3).
NOTE : Do not tighten bolts and screws at this stage.
(c)In aft cabin underfloor compartment, secure lavatory assembly to floor structure using bolts (10) and washers (11).
(4)Tighten all bolts and screws.
(a)To prevent corrosion, preserve lavatory fittings with Storage Preservation (13) (Mat. No. 15-008).
NOTE : Use a brush for greasing the fittings.
(5)Install upper connections (Ref. Fig. ).




Lower Attachments
Figure 404

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Lavatory Floor Attachments
Figure 405

(a)Release tie-rod (11) from aircraft structure and connect tie-rod (11), distance piece (14), washers (13), bolt (15) and nut (12). Adjust tie-rod, (11) if necessary.
(b)Install bracket (7), complete with hose (10), using screws (8) and washers (9).
(c)Connect hose (6) using clamps (5).
(d)Connect hose (4) using clamps (3).

**ON A/C 101-200,

Post SB 21-2050 For A/C 101-200,

(5)Install upper connections (Ref. Fig. 402).
(a)Release tie-rod (11) from aircraft structure and connect tie-rod (11), distance piece (14), washers (13), bolt (15) and nut (12). Adjust tie-rod (11) ,if necessary.
(b)Install bracket (7), complete with hose (10), using screws (8) and washers (9).
(c)Connect hose (6) using clamps (5).
(d)Connect hose (4) using clamps (3).
(e)Connect flexible hose (17) to cabin air distribution duct using clamp (16).

**ON A/C 101-200,

(6)Connect water/waste connections (Ref. Fig. 403).
NOTE : Wrap sealing tape (Mat. No. 05-022) around threads where hoses and tubes are to be connected.
(a)Apply release agent (Mat. No. 05-013) to surface, where connection plate (10) is to be installed.
(b)Install connection plate (10) using washers (9) and bolts (8).
NOTE : Do not tighten bolts at this stage.
(c)In sanitary cabinet connect hose (6) using clip (5).
(d)Connect bonding strap (18) using bolt (17), washer (16) and nut (15), if removed (Ref. 20-28-11, P. Block 1).
(e)Connect supply line (7).
NOTE : The following steps (e) and (f) are to be carried out in Aft underfloor compartment (Z170).
(f)Connect supply line (2) using clip (1).
(g)Connect waste line (4) using clip (3).
(h)At rear of toilet unit, with new O-rings (13), assemble pipe (14) using sleeves (12) and clamshells (11).
NOTE : Clamshell closure locks automatically when two halves are snapped together and it cannot disengage accidentally since all three latch pawls must be lifted simultaneously to disengage the latch.
Axial adjustment 6.35 mm (0.25 in.) minimum, angular misalignment for full coupling ±4 °.
(j)At this stage tighten all bolts (8).
(k)Seal contour edges of connection plate (10) with sealant

(Mat. No. 09-016).
(7)Seal lavatory assembly (Ref. Fig. 404, 405).
(a)Lay length of cord (9) (Mat. No. 05-016) with approx. 100 mm (4 in.) surplus in gap between lavatory floor and surrounding floor panels.
(b)Apply sealant (5) (Mat. No. 09-016) to fill gap.
NOTE : Do not apply sealant to cord surplus length.
(c)Cover sealant with tape (4) (Mat. No. 05-015).
(d)Lay length of cord (6) (Mat. No. 05-015) in loops in each attach fitting cavity and apply sealant (5) (Mat. No. 09-016).
NOTE : When applying sealant, leave approx. 100 mm (4 in.) end of cord exposed.
(8)Install nontextile floor covering in lavatory area, as required (Ref. 25-28-12, P. Block 401).
(9)Install threshold (7) (Ref. Fig. 404).
(a)Apply sealant (5) (Mat. No. 09-016) to underside of threshold (7).
(b)Position threshold, apply thread sealant (Mat. No. 05-002) to screws (8) and install threshold with screws.
(c)At both ends of threshold, seal gaps with sealant (5) (Mat. No. 09-016).
(10)Install cover plates (1) (Ref. Fig. 404).

(11)Remove protective caps and connect electrical connectors 5941 VC-A (1) and 5942 VC-A (2) (Ref. Fig. ).
(12)Replenish potable water system as required (Ref. 12-15-38, P. Block 1).
(13)Pressurize potable water system (Ref. 38-40-00, P. Block 301) and open AFT water system shutoff valves.
(14)Check all lavatory water and waste line connections for leaks. Leaks are not permissible.
(15)Install toilet shroud (Ref. 25-45-11, P. Block 401).
(16)Install smoke Detector (Ref. 26-17-11, P. Block 401).
(17)Close lavatory ceiling access panel and secure fasteners.

E. Test
(1)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is operating.
(3)Remove safety clips and tags. Close circuit breakers opened in step 3.A.(1).
(4)Carry out operational test of lavatory Z interface system (Ref. 25-40-00, P. Block 501).
(5)Carry out operational test of razor sockets (Ref. 25-44-00, P. Block 501).
(6)Carry out operational test of vacuum toilet system (Ref. 38-35-00, P. Block 501).

F. Close-Up
(1)Adjacent to lavatory front wall, install the following:
(a)Lower sidewall panel (Ref. 25-23-31, P. Block 401).
(b)Upper sidewall panel (Ref. 25-23-21, P. Block 401).
(c)Fluorescent lighting cover (Ref. 25-23-63, P. Block 401).
(2)Install carpet floor covering in lavatory area, as required

(Ref. 25-28-00, P. Block 1).
(3)Install utility area ceiling panel (Ref. 25-23-13, P. Block 401).
(4)Install passenger compartment seats in front of lavatory (Ref. 25-21-00, P. Block 401).
(5)Install curtain rails, as required (Ref. 25-26-00, P. Block 1).
(6)Close water service panel access door 136BR and remove access platform.
(7)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

# RAZOR SOCKETS - DESCRIPTION AND OPERATION

## 1. General

Each lavatory is equipped with an electrical razor socket.

## 2. Component Location

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF. |
|---|---|---|---|---|---|
| 2MT | STATIC INVERTER-FWD | | 220 | | |
| 5MT | STATIC INVERTER-AFT | | 250 | | |

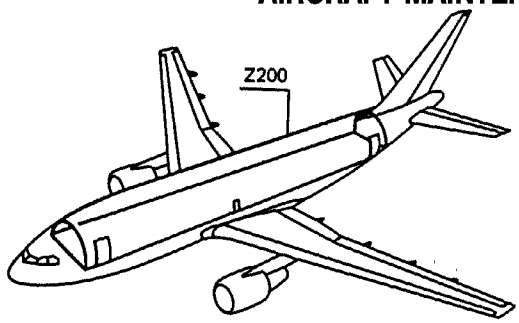
## 3. Description and Operation

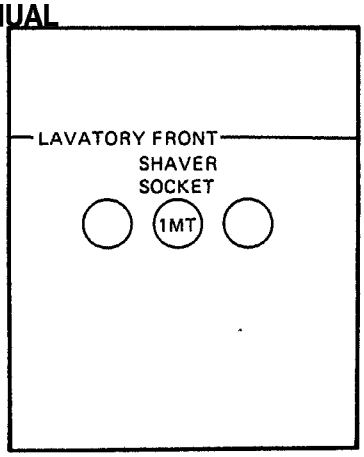
(Ref. Fig. 001)
(Ref. Fig. 002)

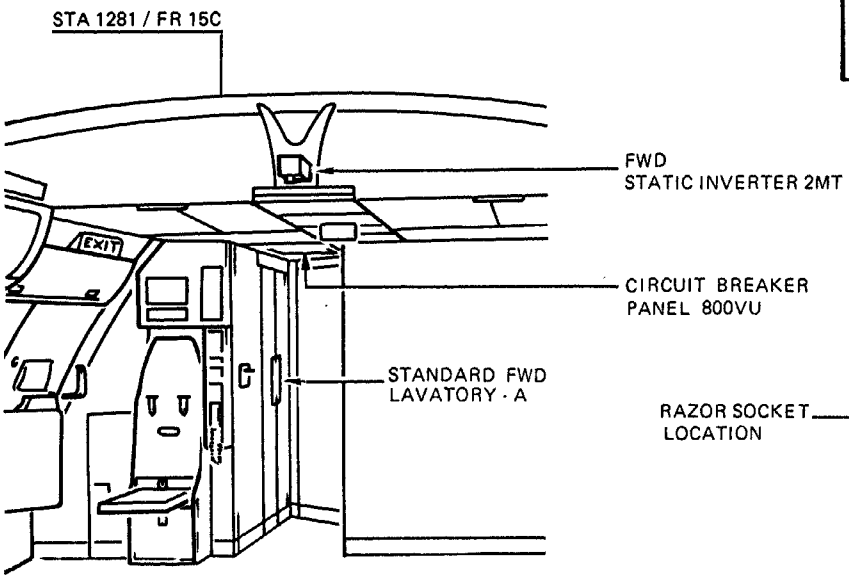
A. The razor socket system is divided into two similar sub-systems supplying the forward and aft lavatories with 110V AC, from a 28V DC source via static inverters.

B. Each sub-system consists of:
- circuit breaker
- static inverter, which provides 110V AC, 60 Hz.
- razor socket - one each lavatory.

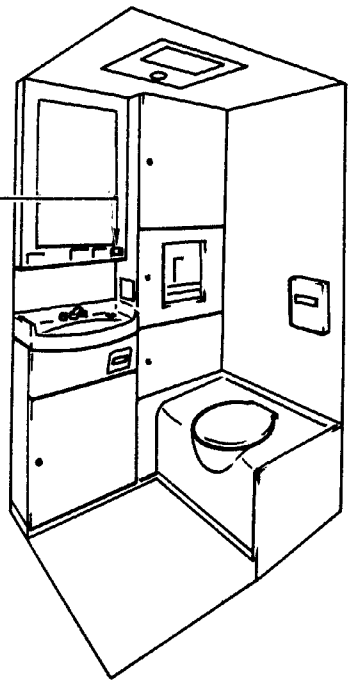
C. On plugging a shaver into the razor socket, an internal contact is closed to complete the supply circuit and provide 110V AC, 60 Hz to the shaver.



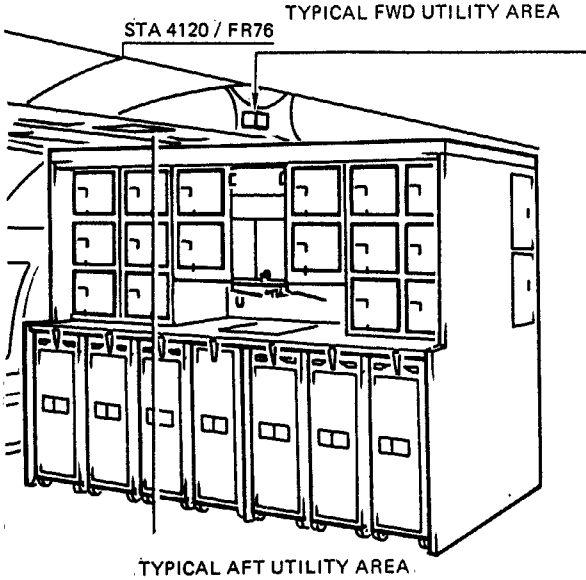



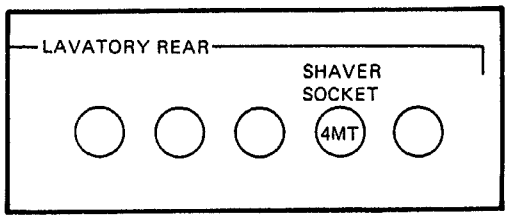

TYPICAL FWD UTILITY AREA




TYPICAL LAVATORY LAYOUT




TYPICAL AFT UTILITY AREA

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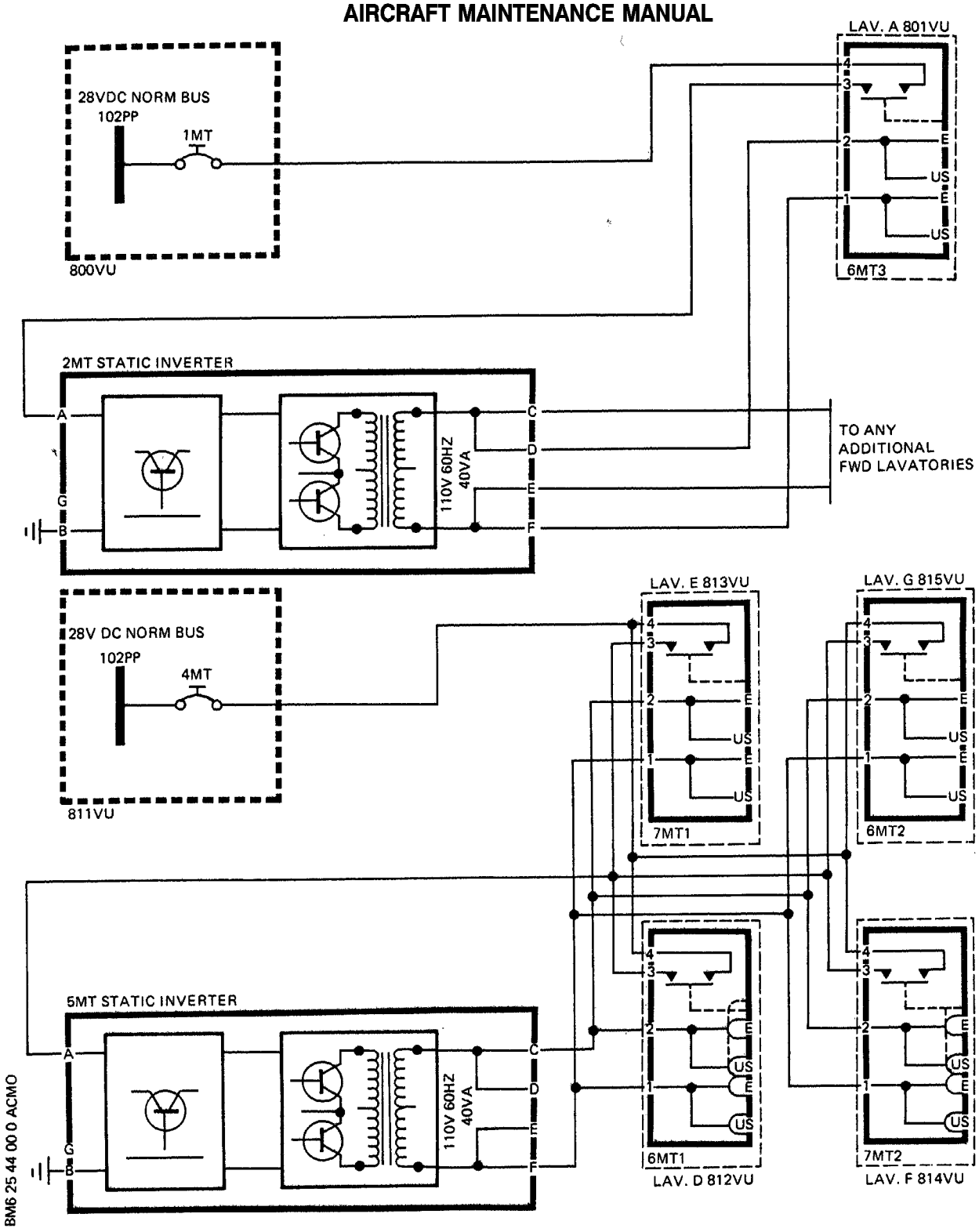
Component Location
Figure 001




System Schematic
Figure 002

1. Operational Test

A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |
| (2) | Voltmeter |

| Referenced Procedure | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |

B. Procedure

(1)Job Set-Up

(a)Connect electrical ground power unit (Ref. 24-41-00, P. Block 301).

(b)Make certain that the following circuit breakers are closed:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | LAVATORY FRONT/SHAVER SOCKET | 1MT | G 6 |
| 811VU | LAVATORY REAR/SHAVER SOCKET | 4MT | B 7 |

(c)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(2)Test

| ACTION | RESULT |
|---|---|
| 1. Connect voltmeter to lavatory shaver sockets. | - Voltmeter indicates 120 V ±15 V AC. for unloaded condition. |
| 2. Disconnect voltmeter. | |

(3)Close-Up

(a)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(b)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

# LAVATORY EQUIPMENT - DESCRIPTION AND OPERATION

## 1. General

Lavatories are similar in construction and contain similar equipment; the layout of the equipment varies.

## 2. Lavatory equipment

(Ref. Fig. 001)

### A. Sanitary Unit Cabinet

The sanitary unit cabinet is attached to the lavatory partition and houses the washbasin and associated lines. A fixed panel, which houses an ashtray, is attached to the front of the cabinet to cover the front of the washbasin. A door, mounted below the washbasin panel, provides access to lines and valves associated with the washbasin.

### B. Lavatory Panel

The lavatory panel is positioned above the washbasin and comprises:

(1) Mirror

The mirror is housed in a frame, which is secured to the lavatory partition. A one-piece insert is fitted to the periphery of the mirror to prevent vibration.

(2) Light units

Lavatory lighting is provided by light units fitted behind the mirror panel. An emergency light is installed in the lavatory ceiling.

(3) Passenger service unit

The passenger service unit is positioned below the mirror, and contains an attendant call button, loudspeaker, individual air outlet, electric shaver outlet and illuminated sign **RETURN TO SEAT**.

### C. Lavatory Cabinet

The lavatory cabinet is formed by the lavatory walls and is located between the sanitary unit cabinet and the sidewall. The lavatory cabinet is divided into three sections.

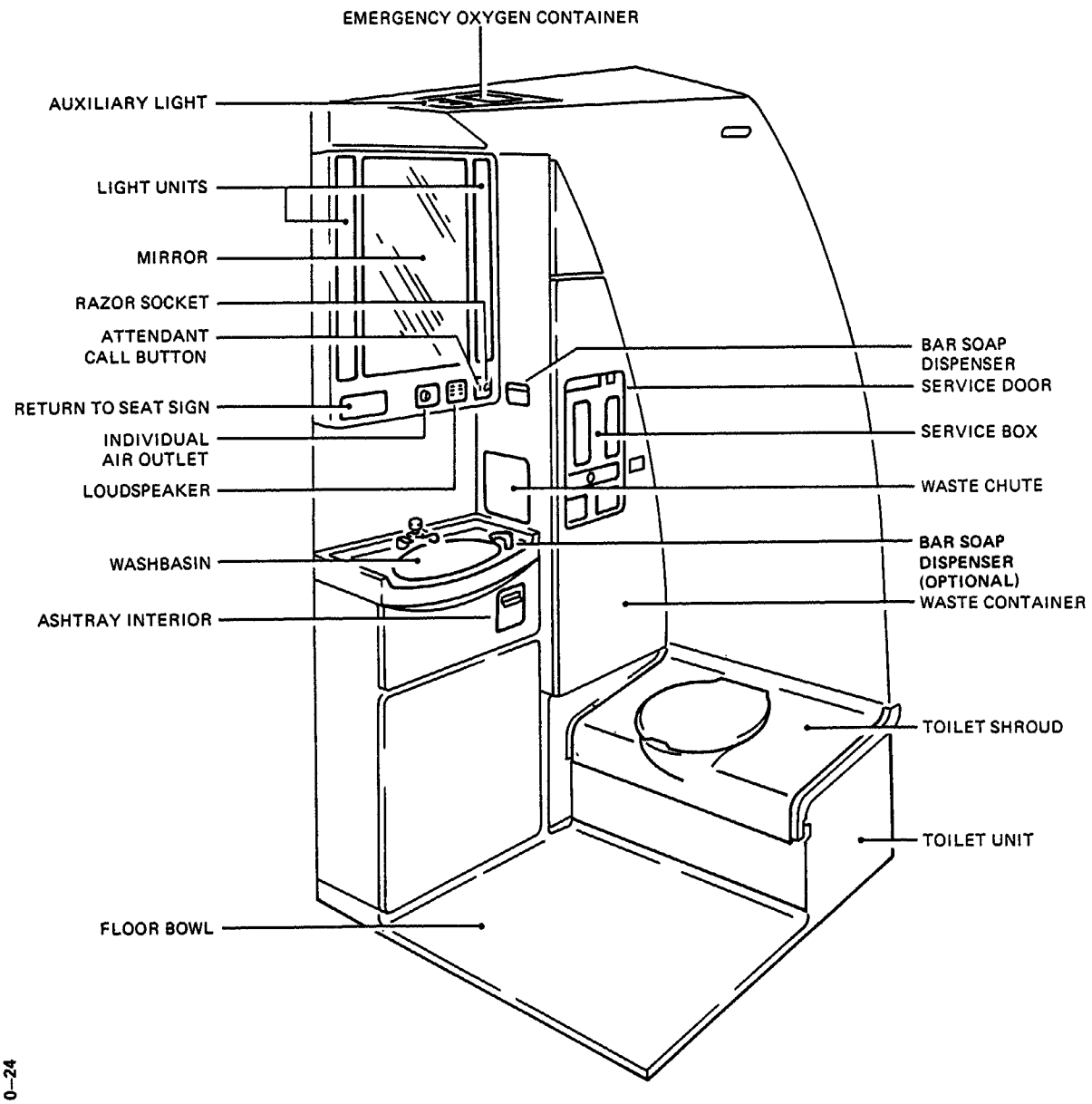
(1) The lower section of the lavatory cabinet houses the waste container. An opening in the side of the cabinet adjacent to the washbasin provides for the disposal of waste items. A similar opening is provided in the lower door of the cabinet for the disposal of sanitary items.

(2) In the middle section of the lavatory cabinet a service box is located, and serves as a dispenser for sanitary and service items. The service box is provided with handles to facilitate its removal for replenishment or replacement.

(3) In the upper section of the lavatory cabinet, a stowage compartment is provided for an optional service box.

### D. Auxiliary Cabinet

In lavatories F and G (if fitted), an auxiliary cabinet is positioned on the rear wall of each compartment adjacent to the sanitary unit cabinet. The auxiliary cabinet is provided for additional stowage room. A reserve service box can be accommodated in the upper section of the cabinet.



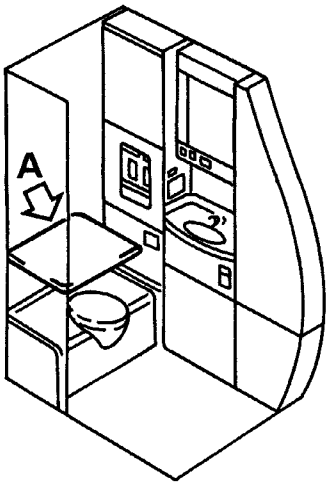

B M 6 25 45 00 0 BA M 0-24

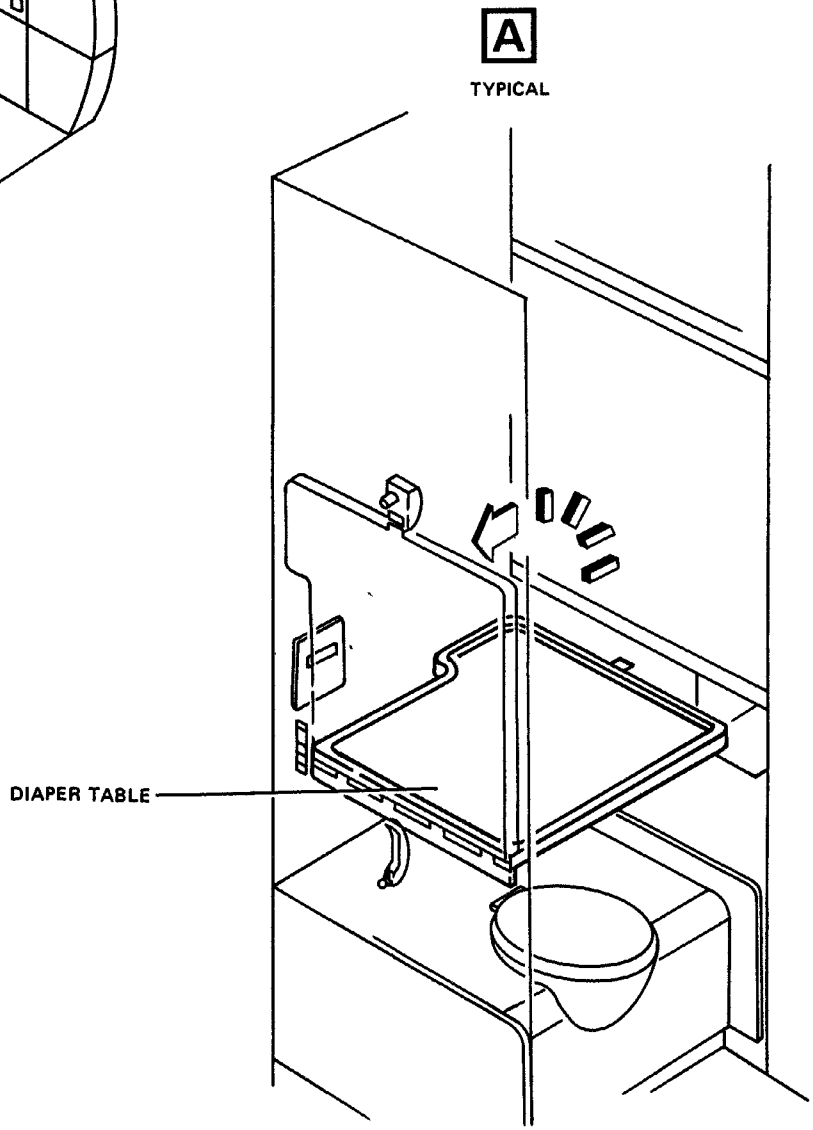
Lavatory Equipment
Figure 001

E. Diaper Table
(Ref. Fig. 002)
Hinged diaper tables are provided as standard equipment in the aft lavatories F and G, and provided as optional equipment in the other Lavatories. Hinged diapter tables are attached to the lavatory wall. When not in use, the tables are folded against the partition and are retained by catches. When folded down for use, the table occupies the area immediately above the toilet bowl and surrounding shroud. A friction damper is fitted between the table and the partition to regulate the rate of descent of the table.

F. Toilet Shroud
(Ref. Fig. 003)
The toilet bowl is surrounded by a toilet shroud and covered by an assembled toilet seat.
At the lavatory rear wall, the toilet shroud is clipped under a retainer strip, while the attachment to the toilet front cover is provided by quick-release fasteners.
To prevent leakage of any fluids into the lavatory compartment, a replaceable rubber seal is located between the lateral edges of the shroud and the wall-mounted support rails.

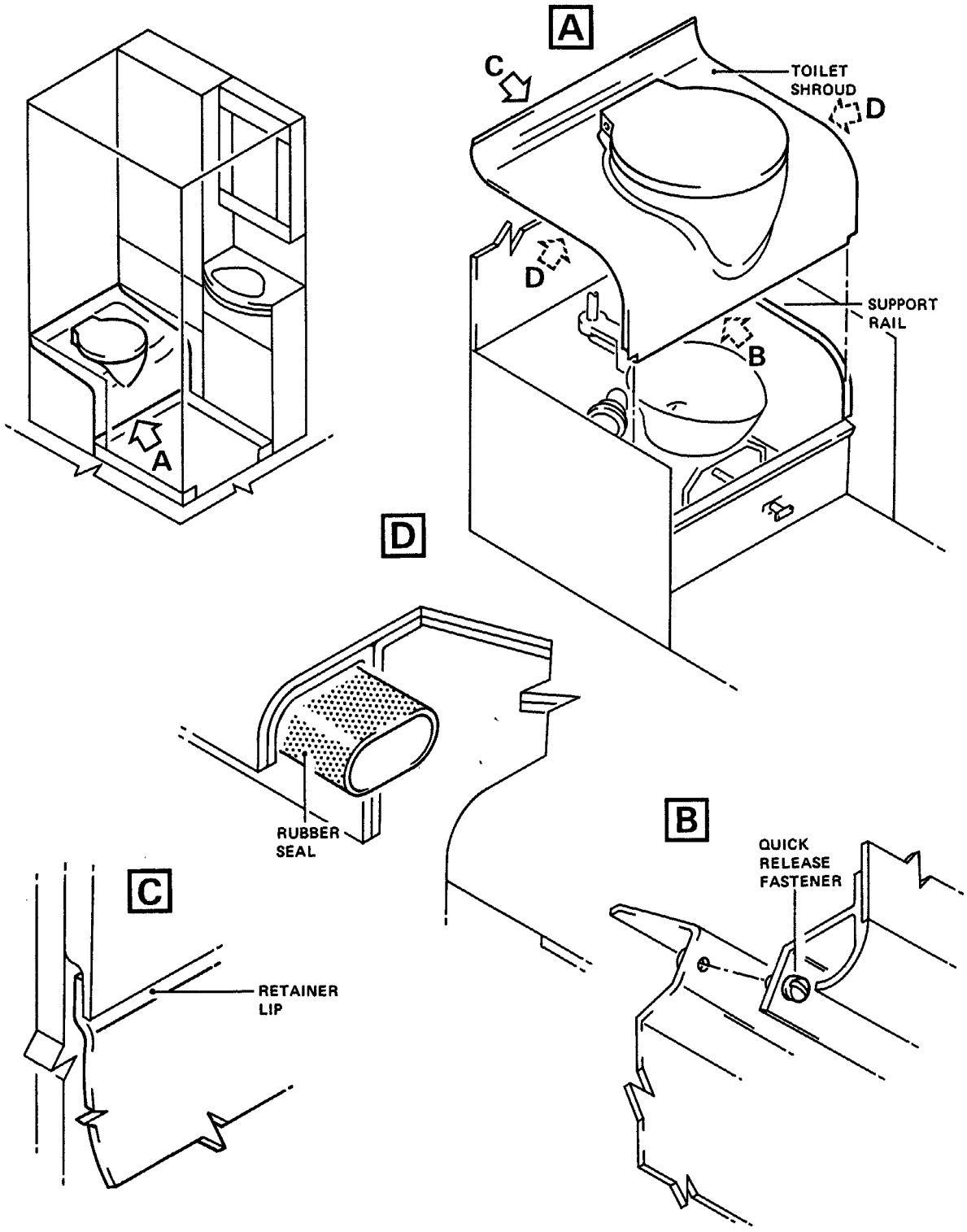
G. Additional Items
The following items are also installed in all lavatory compartments:
(1)Handgrip
A handgrip is attached to the lavatory compartment partition convenient to the toilet.
(2)Handrail
A handrail is attached to the lavatory compartment partition convenient to the toilet for handicapped persons (optional).
(3)Perfume Holder
Perfume holders are provided as optional equipment in lavatories and attached to the lavatory wall.
(4)Floor bowls
Three floor bowls are installed in each lavatory.
(5)Coat hook
A spring-loaded coat hook is fitted to the door and must be folded out of its housing for use.
(6)Toilet seat cover dispenser
A dispenser for disposable toilet seat covers is located on the compartment wall adjacent to the toilet.




B M G 25 45 00 0 BB M 0-24

Diaper Table
Figure 002




Toilet Shroud
Figure 003

TOILET SHROUD - REMOVAL/INSTALLATION

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Reasons for the Job

A. Removal of Lavatory

B. Access to Toilet Unit

(Ref. Fig. 401)

R **ON A/C 101-200,

R (Ref. Fig. 402)

R **ON A/C 001-100,

2. Procedure

A. Removal
(1)Open cabinet doors.
(2)Remove screws (2) and retain for later installation.
(3)Carefully lift toilet shroud (1) and spacer (3) on FWD face and detach shroud from under lip at lavatory rear wall and remove.

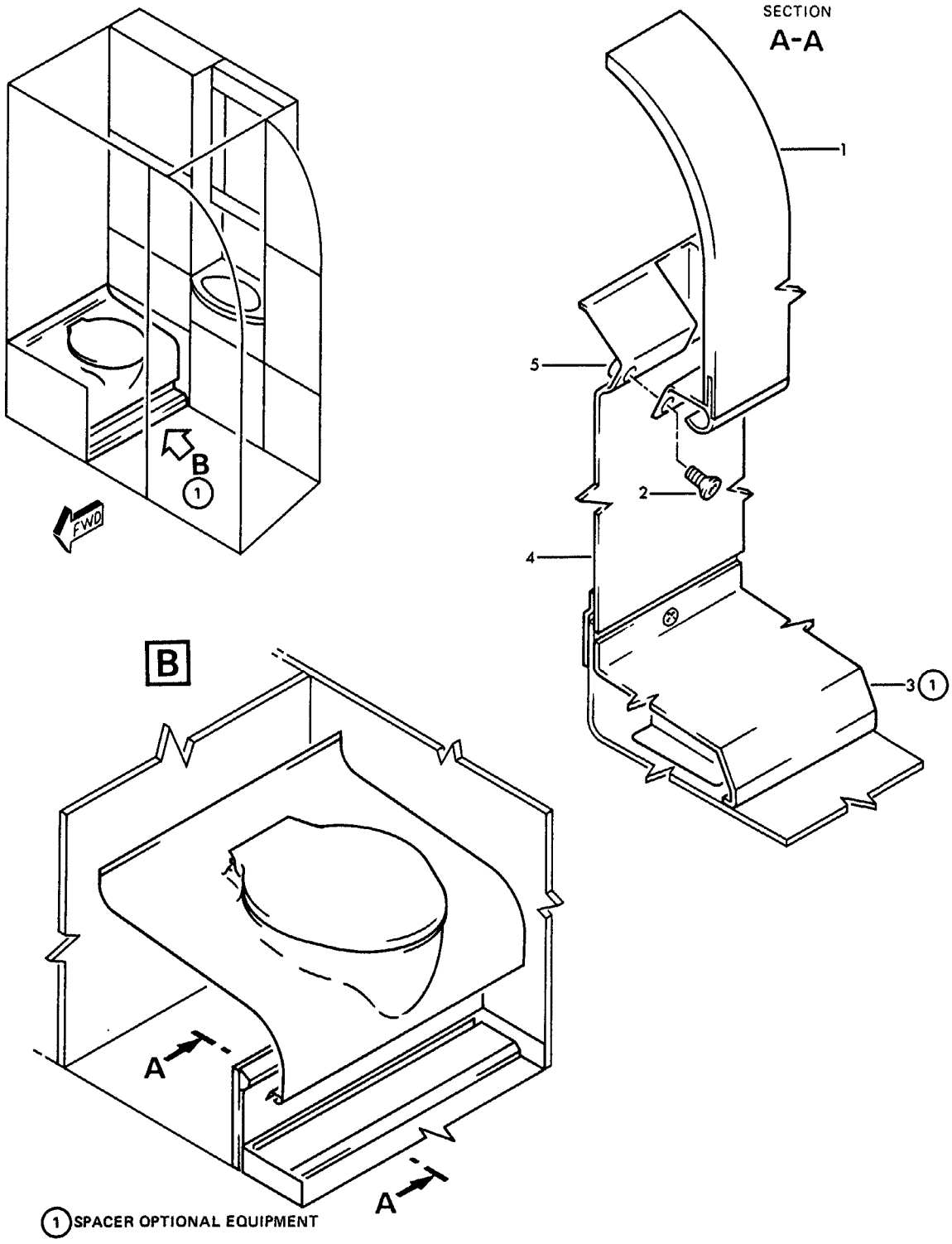
B. Installation
(1)Position toilet shroud (1).
NOTE : Make certain that shroud (1) and spacer (3) is inserted under lip at lavatory rear wall and overlaps trim (4) with nutplates (5).
(2)Install screws (2).
(3)Close cabinet doors.

C. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

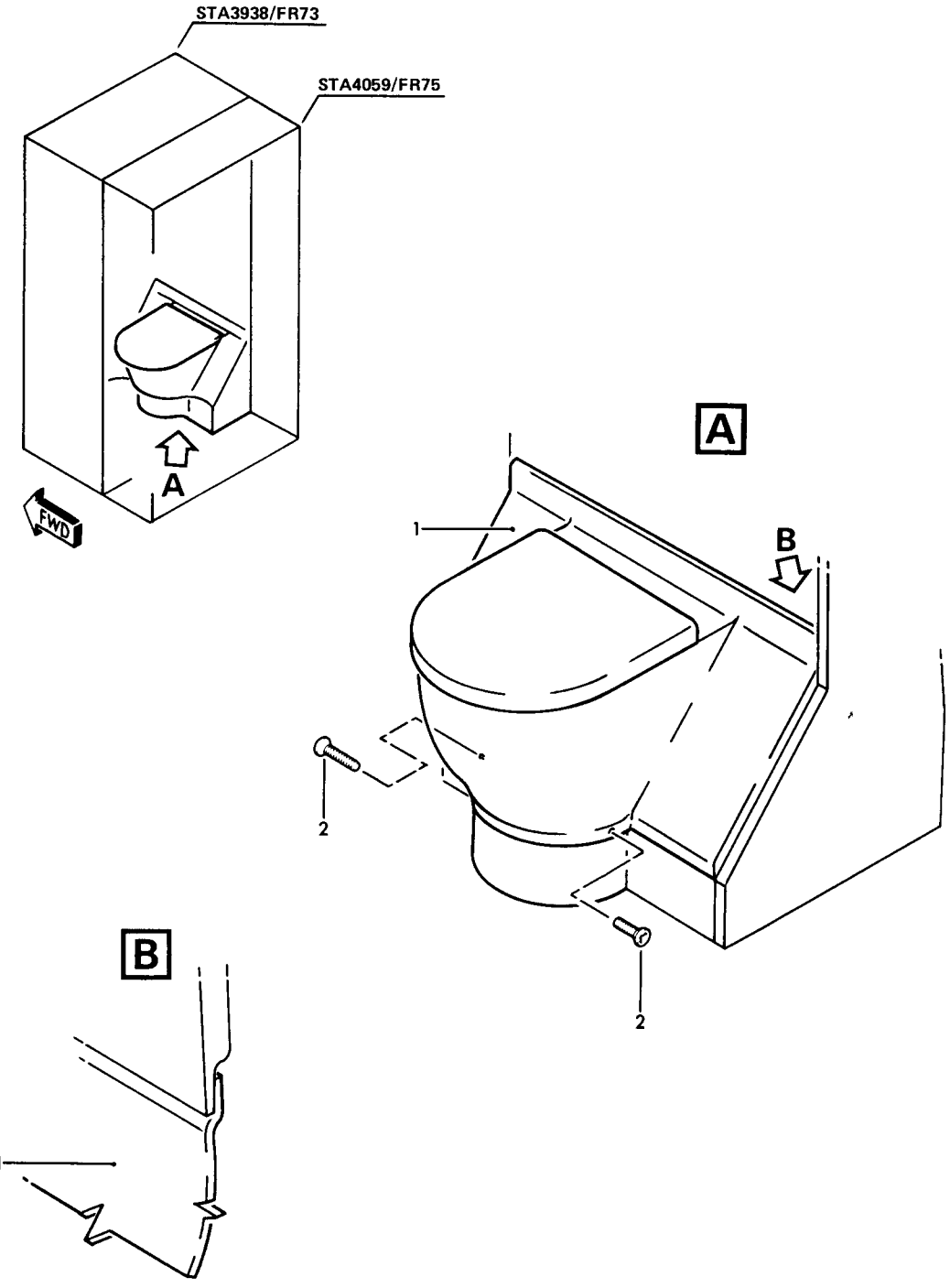
R **ON A/C 101-200,

R 2. Procedure

R A. Removal
R (1)Lavatories A, T, W, Y and Z:
R (a)Open cabinet doors.
R (b)Remove screws (2) and retain for later installation.
R (c)Carefully lift toilet shroud (1) and spacer (3) on FWD face and detach shroud from under lip at lavatory rear wall and remove.
R (2)Lavatory X:
R (a)Open cabinet doors.
R (b)Remove screws (2) and retain for later installation.




Typical Toilet Shroud and Floor Pan
Figure 401




BM6 25 45 11 4 ABMO 00

Toilet Shroud - Lavatory X
Figure 402

R

R (c)Carefully lift toilet shroud (1) and detach shroud from ander lip
R at lavatory rear wall and remove.

R B. Installation
R (1)Lavatories A, T, W, Y and Z:
R (a)Position toilet shroud (1).
R NOTE : Make certain that shroud (1) and spacer (3) is inserted under
R lip at lavatory rear wall and overlaps trim (4) with nut-
R plates (5).
R (b)Install screws (2).
R (c)Close cabinet doors.
R (2)Lavatory X:
R (a)Position toilet shroud (1).
R NOTE : Make certain that shroud (1) is inserted under lip at
R lavatory rear wall.
R (b)Install screws (2).

R C. Close-Up
R (1)Make certain that working area is clean and clear of tools and miscella-
R neous items of equipment.

# SOAP DISPENSER - REMOVAL/INSTALLATION

## 1. Reason for the Job

A. Removal of the soap dispenser for repair or replacement.

## 2. Procedure

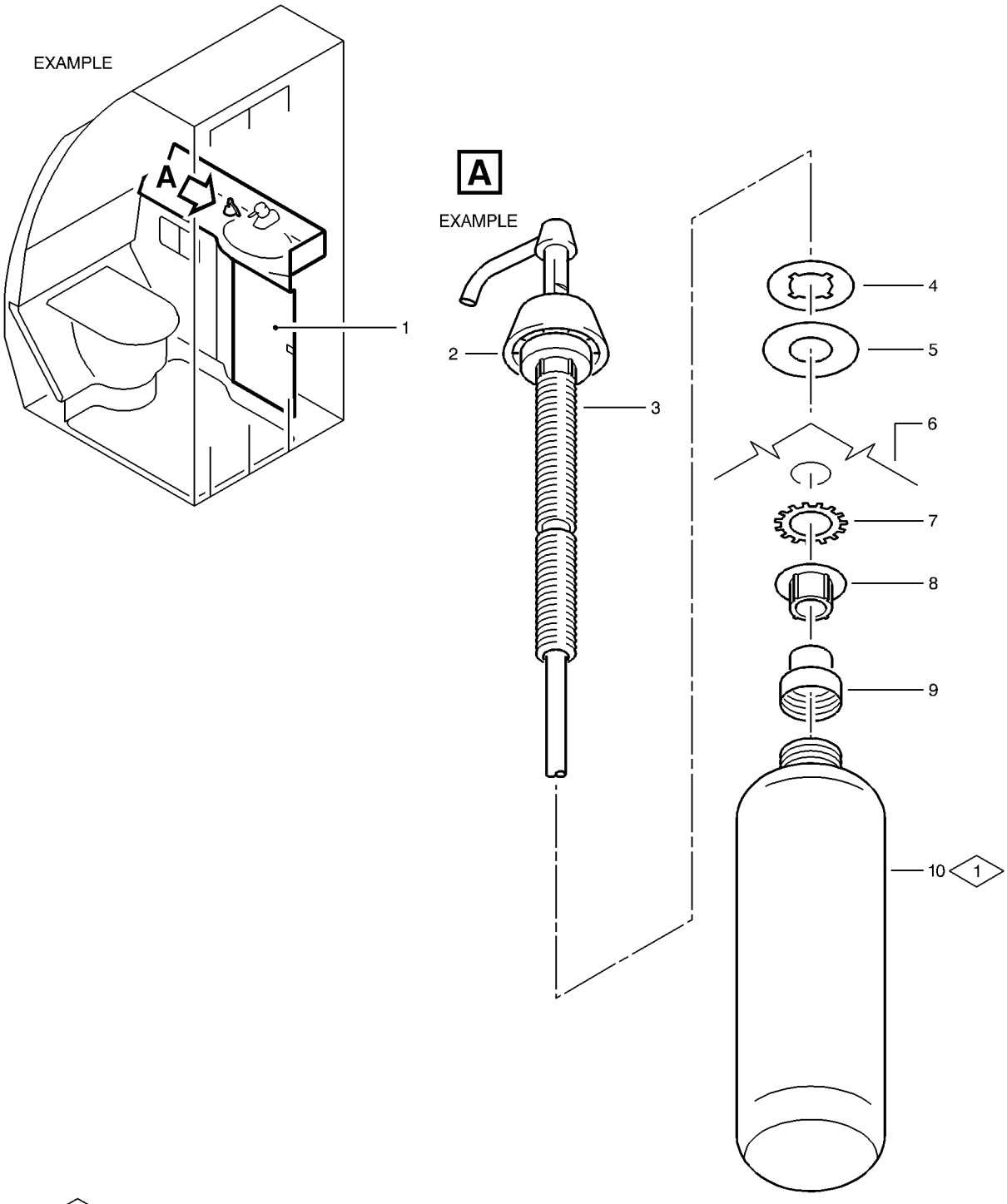
A. Job Set-Up
(1)Get access to the relevant lavatory.

B. Removal (Ref. Fig. 401)
(1)Open the access door (1).
(2)Remove the soap container (10) and adapter (9) from the shank (3).
(3)Remove the retaining nut (8) and the tooth lock washer (7) from the shank (3).
(4)Remove the piston assy (2), together with the shank (3), the washer (4) and the rubber washer (5) from the wash basin assembly (6).

C. Installation
(1)Open the access door (1).
(2)Install the piston assy (2) together with the shank (3), the washer (4) and the rubber washer (5) on the wash basin assembly (6).
(3)Install the tooth lock washer (7) and the retaining nut (8) on the shank (3).
(4)Install the soap container (10) with the adapter (9) on the shank (3).

D. Test
(1)Press the piston on the soap dispenser and make sure that the dispenser operates correctly.

E. Close-Up
(1)Make sure that the work area is clean and clear of tools and other items.
(2)Close the access door (1).




BM6 25 45 15 4 AAM0 00

1 DIFFERENT TYPE SOAP CONTAINER AVAILABLE

Soap Dispenser
Figure 401

## SINGLE DOOR - REMOVAL/INSTALLATION

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Reasons for the Job

A. Gaining access to the lavatory structure

B. Removal for replacement or repair

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Safety Clips and Tags |
| B. | Electrical Ground Power Unit - 3-Phase 115/200 V, 400 Hz |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 33-24-00, P. Block 501 | Lavatory Lighting |
| - 33-26-00, P. Block 501 | Passenger Lighted Signs |

3. Procedure

A. Job Set-Up

(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | LAVATORY FRONT/LIGHT | 1LQ | G2 |
| 800VU | LAVATORY FRONT/OCCUPIED | 1WJ | G4 |
| 811VU | LAVATORY AFT/LIGHT | 11LQ | B2 |
| 811VU | LAVATORY AFT/OCCUPIED | 11WJ | B6 |

B. Removal

(Ref. Fig. 401)

(1)Open door.

(2)In lavatory remove screws (2) and washers (3).

(3)Remove clip (4), pin (6) and disconnect door lever (5), if fitted.

(4)Remove door (1).

C. Installation

(1)Position door (1).

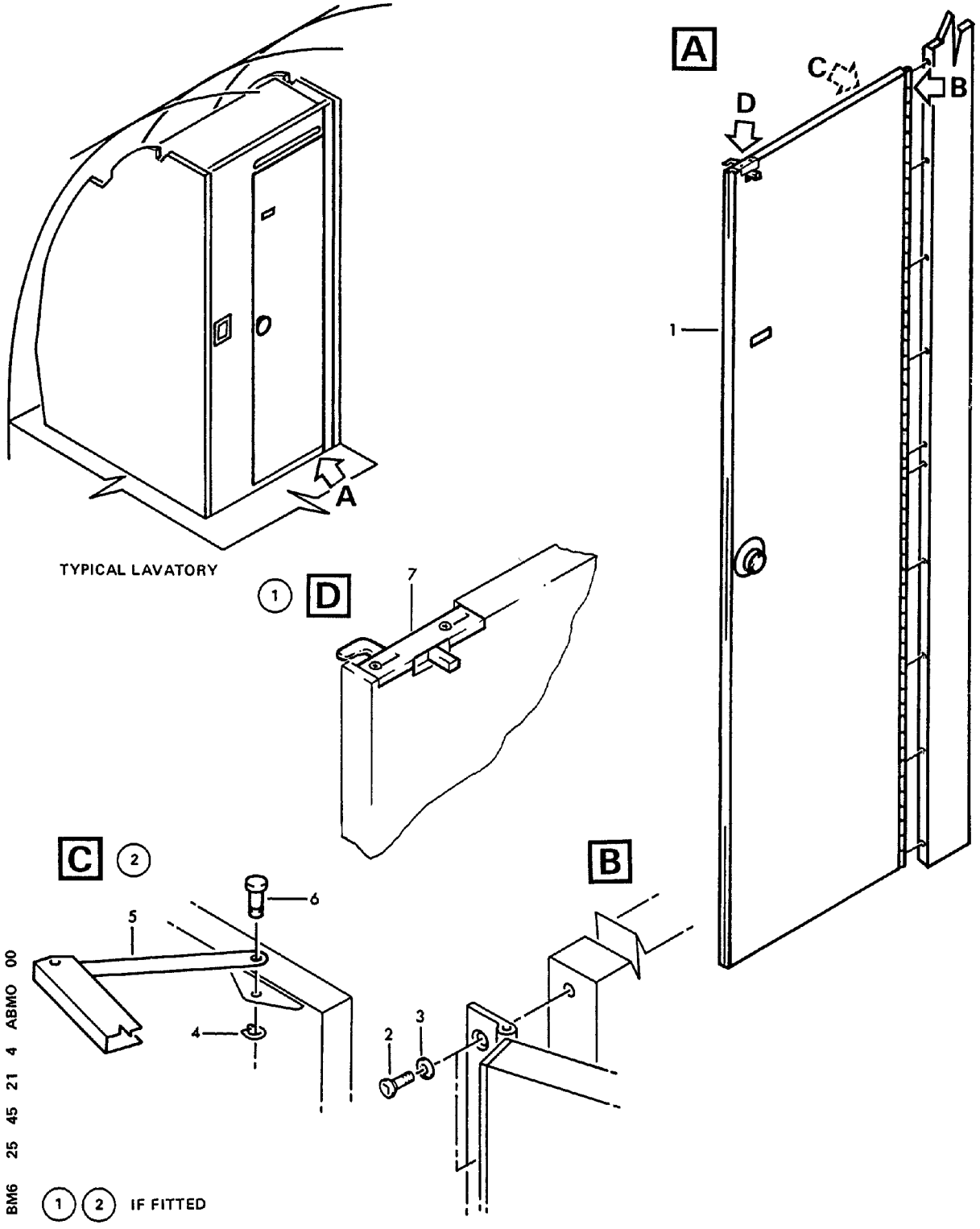
(2)In lavatory install screws (2) and washers (3).

(3)Connect door lever (5) using pin (6) and clip (4), if removed.

(4)Close door.

D. Test

(1)Connect external electrical power and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).




Single Door
Figure 401

(2)Make certain that the electronics racks ventilation system is operating.
(3)Close circuit breakers 1WJ, 1LQ, 11WJ and 11LQ, as required.
(4)Carry out operational test of lavatory door.
(a)Make certain that lavatory door operates correctly by opening and closing it several times.
(b)Make certain that the mechanical indicator indicates **OCCUPIED** when door is closed and locked, **VACANT** when door is closed and unlocked.
(c)Carry out operational test of lavatory lighting (Ref. 33-24-00, P. Block 501).
(d)Carry out operational test of passenger cabin lighted lavatory **OCCUPIED** signs (Ref. 33-26-00, P. Block 501).
(e)Make certain that lavatory door positive locking device (7) operates correctly, and that **WARNING** placard is legible, if fitted.

E. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

## SLIDING DOOR - REMOVAL/INSTALLATION

1. Referenced Procedures
- 33-24-00, P. Block 501 Lavatory Lighting
- 33-26-00, P. Block 501 Passenger Lighted Signs

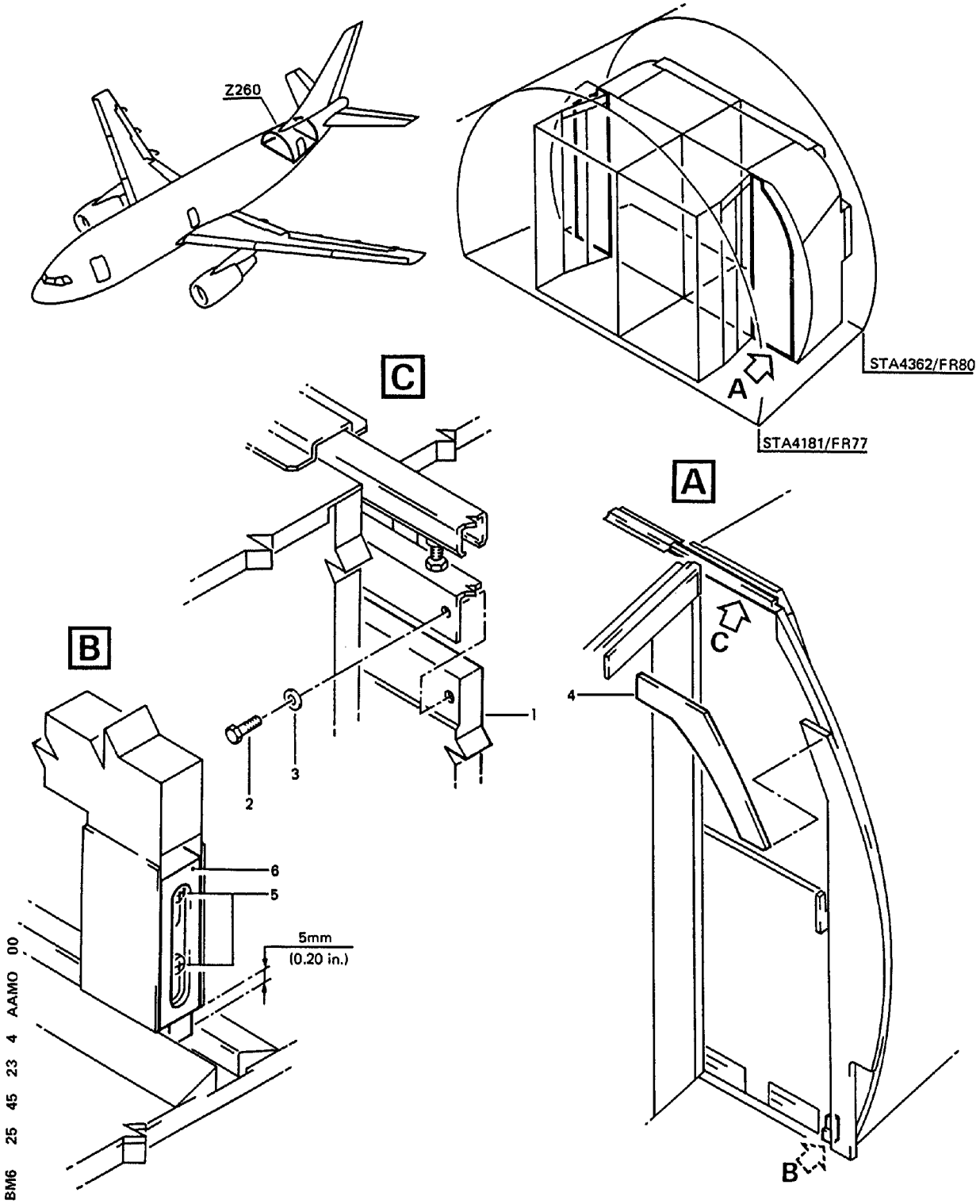
2. Procedure
(Ref. Fig. 401)

A. Removal
(1)Release screws (5) and push up bracket (6) free from threshold.
(2)Pull door lining panel (4) free from Velcro tape.
(3)Remove bolts (2), washers (3) and door (1).

B. Installation
(1)Position door (1) and install washers (3) and bolts (2).
(2)Engage nose of bracket (6) into threshold by pushing down and tightening screws (5).
(3)Check clearance between lower door edge and threshold. Clearance must be 5 mm (0.2 in.). If necessary, adjust door using studs of upper attachment.

C. Test
(1)Open and close door several times and check for correct operation and alignment.
(2)Close and lock door and check mechanical OCCUPIED indicator.
(3)Install door lining panel (4) by pressing onto Velcro tape.
(4)Carry out operational tests for rear lavatory lighting (Ref. 33-24-00, P. Block 501) and rear lavatory occupied signs (Ref. 33-26-00, P. Block 501).

D. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.




Sliding Door
Figure 401

CAUTION : TAKE CARE NOT TO FOUL ADJACENT STRUCTURES.

1. Reasons for the Job

A. Gaining access to the lavatory structure

B. Removal for replacement or repair

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Circuit Breaker Saftey Clips and Tags |
| B. | Electrical Ground Power Unit - 3-Phase 115/200 V, 400 Hz |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 33-24-00, P. Block 501 | Lavatory Lighting |
| - 33-26-00, P. Block 501 | Passenger Lighted Signs |

R **ON A/C 101-200,

3. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | LAVATORY FRONT/LIGHT | 1LQ | G2 |
| 800VU | LAVATORY FRONT/OCCUPIED | 1WJ | G4 |
| 811VU | LAVATORY AFT/LIGHT | 11LQ | B2 |
| 811VU | LAVATORY AFT/OCCUPIED | 11WJ | B6 |

R **ON A/C 001-100,

3. Procedure

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 800VU | LAVATORY FWD & MID/LIGHT | 1LQ | G2 |
| 800VU | LAVATORY FWD & MID/OCCUPIED | 1WJ | G4 |
| 811VU | LAVATORY AFT/LIGHT | 11LQ | B2 |
| 811VU | LAVATORY AFT/OCCUPIED | 11WJ | B6 |

R **ON A/C ALL

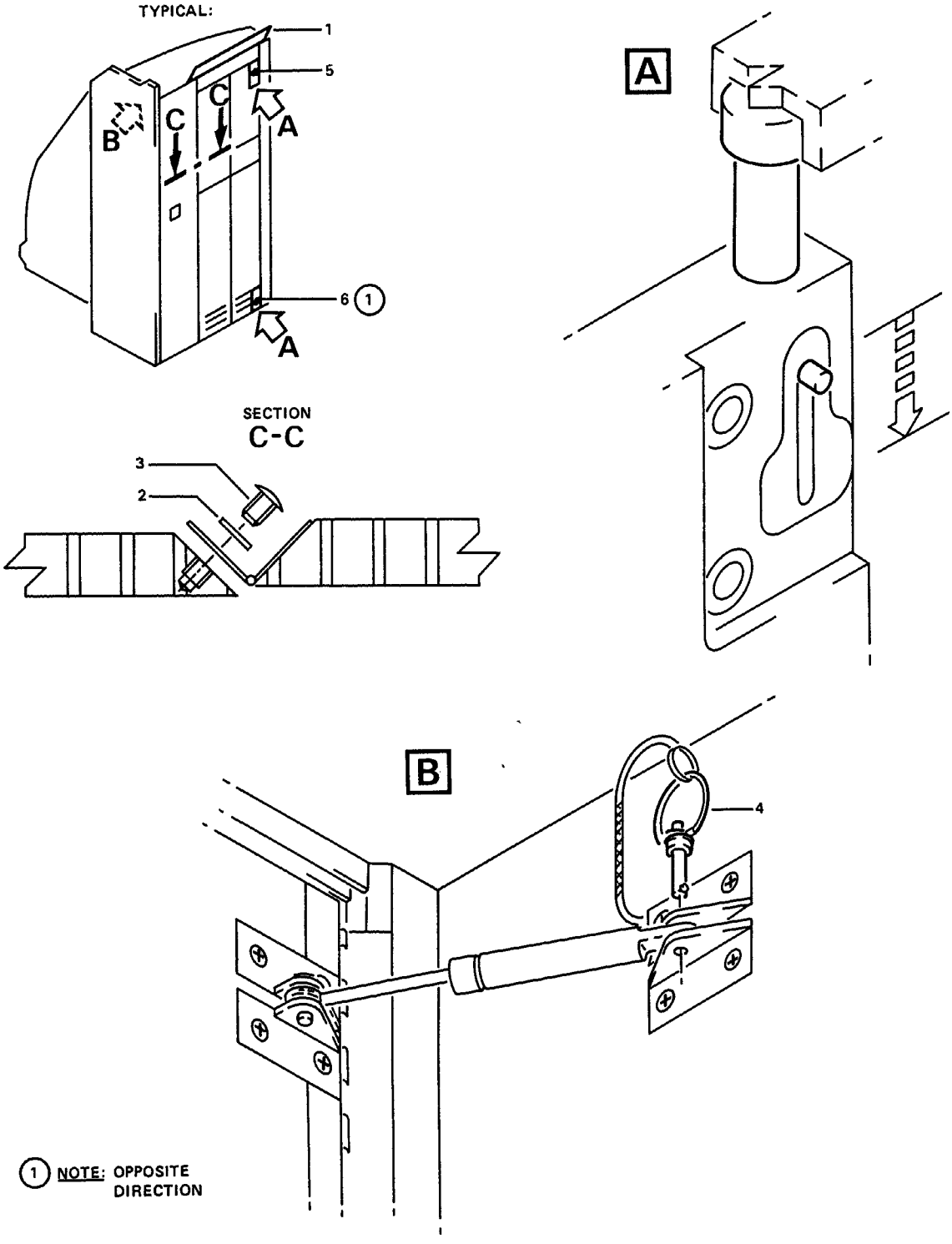
(Ref. Fig. 401)

B. Removal
(1)Open door.
(2)Raise hinged cover (1).
(3)In lavatory remove screws (3) and washers (2).
(4)Pull down knob (5).
(5)Pull up knob (6).
(6)In lavatory remove pip pin (4).
(7)Remove door.
(Ref. Fig. 401)

C. Installation
(1)Position door.
(2)In lavatory install pip pin (4).
(3)Pull up knob (5).
(4)Pull down knob (6).
(5)In lavatory install screws (3) and washers (2).
(6)Close door.

D. Test
(1)Connect external electrical power and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(2)Make certain that electronics racks ventilation is correct.
(3)Carry out operational test of lavatory door.
(a)Make certain that lavatory doors operate correctly by opening and closing them several times.
(b)Make certain that the mechanical indicator **OCCUPIED** indicates.
(c)Carry out operational test of lavatory lighting (Ref. 33-24-00, P. Block 501).
(d)Carry out operational test of passenger lighted signs (Ref. 33-26-00, P. Block 501).

E. Close-Up
(1)Close hinged cover (1).
(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.




Folding Door
Figure 401

1. General
(Ref. Fig. 001)

**ON A/C 001-100,

(Ref. Fig. 002)

R **ON A/C 105-200,

R Post SB 28-2108 For A/C 105-200,

R (Ref. Fig. 003)

**ON A/C 101-200,

(Ref. Fig. 004)

R **ON A/C 101-104,

R Post SB 28-2108 For A/C 101-104,

(Ref. Fig. 005)

**ON A/C ALL

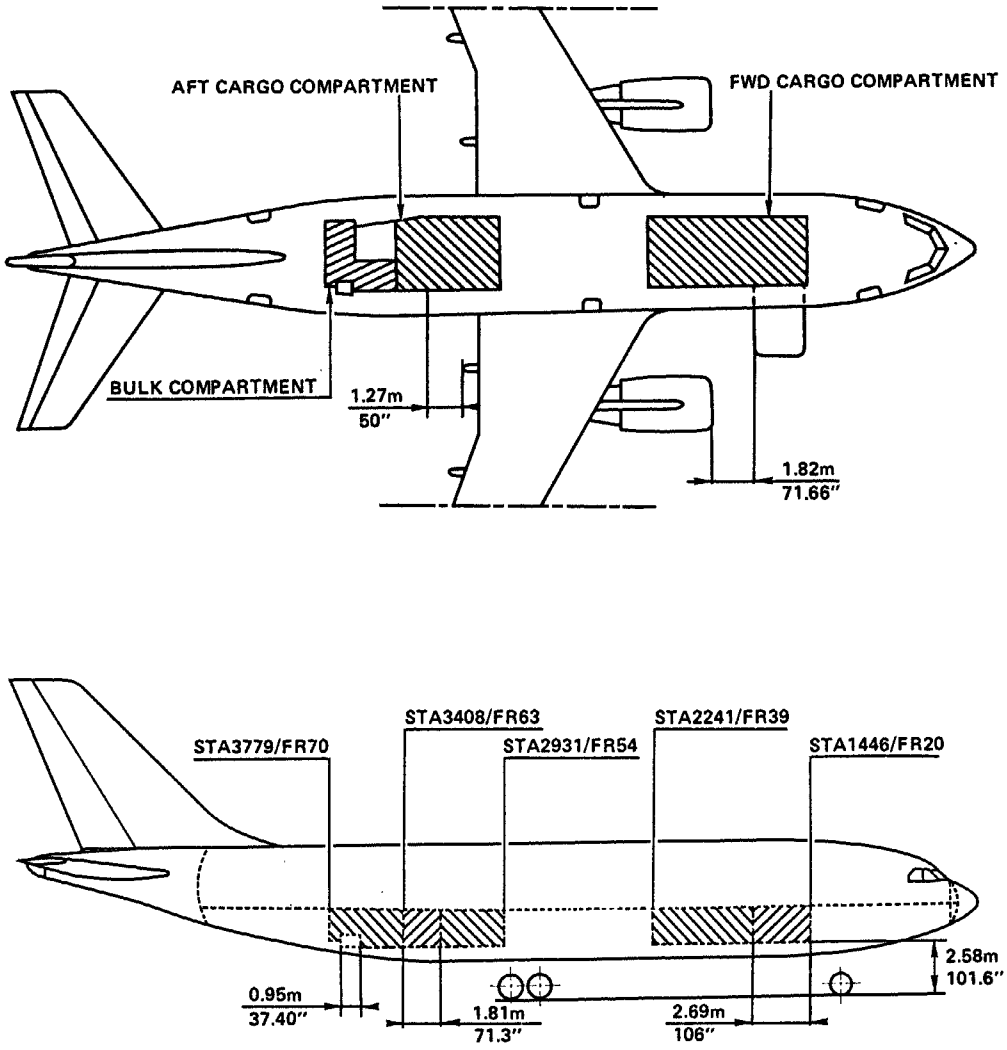
Freight and baggage are carried in three underfloor cargo compartments, designated FWD, AFT and Bulk. The FWD and AFT cargo compartments are equipped with similar, independent cargo loading systems, which are designed for operation by one man. The cargo loading systems are controlled from separate control panels, housed near the cargo compartment doors.
The Bulk cargo compartment is for baggage and small piece cargo, and is equipped with restraining nets to divide the compartment. Tie-down points are provided within the compartment for securing cargo in position.
All cargo compartments are loaded and unloaded through doors in the right-hand fuselage side. The FWD and AFT cargo compartment doors operate hydraulically and open outwards. The Bulk cargo compartment door is manually operated and opens inwards. Location and sizes of the door openings are given in Figure 001.

A. FWD Cargo Compartment

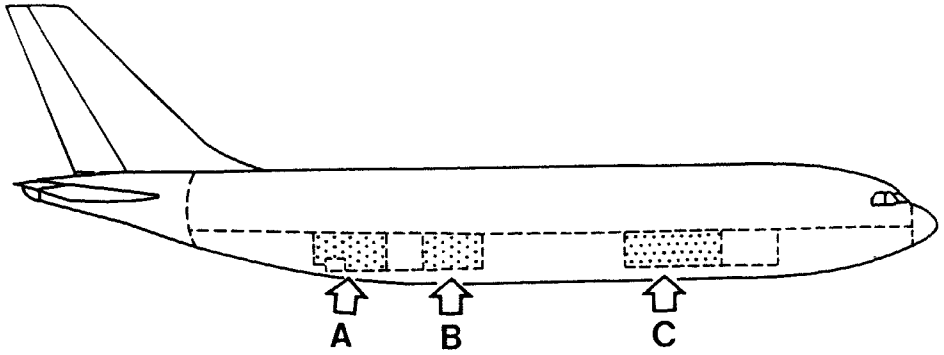
R **ON A/C 101-104,

(Ref. Fig. 006)

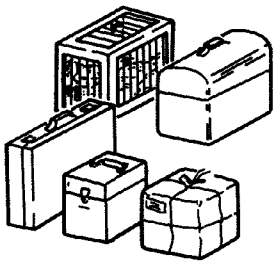
R **ON A/C 001-100, 105-200,




Cargo Compartments - General Arrangement
Figure 001



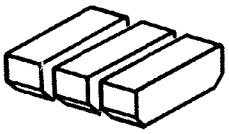

A
BULK CARGO COMPARTMENT



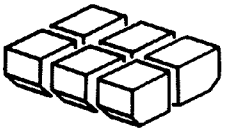
PASSENGER LUGGAGE
LIVE ANIMALS IN CAGES
AND BOXES BULK CARGO

B
AFT COMP

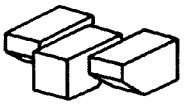
3 FULL SIZE CONT. LD6



OR 6 CONT. LD3



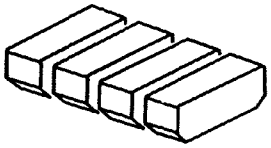
OR 3 HALF SIZE LD1
(ATA A2)



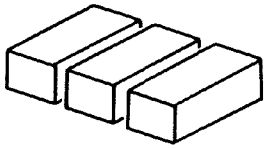
OR VARIUOS COMBINATIONS
OF CONTAINERS AND PALLETS

C
FWD COMP

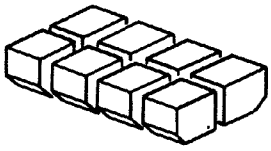
4 FULL SIZE CONTAINERS LD6



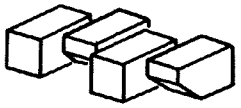
OR 3 PALLETS



OR 8 HALF SIZE
CONTAINERS LD3



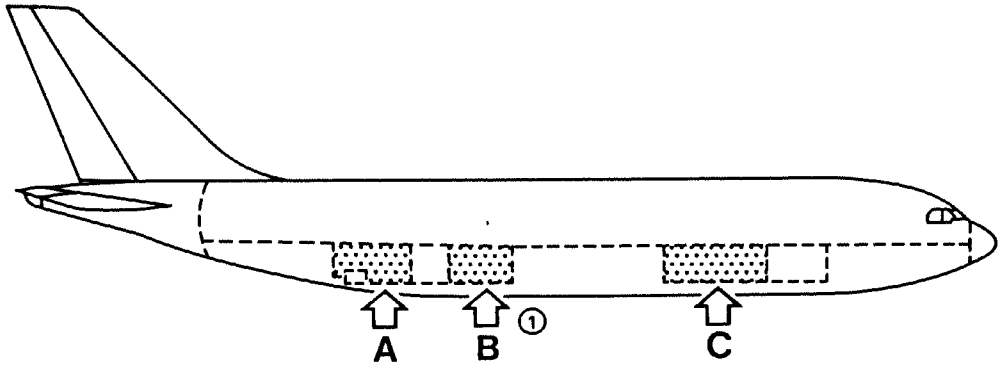
OR 4 HALF SIZE
CONTAINERS LD1



OR VARIOUS COMBINATIONS
OF CONTAINERS AND PALLETS
ARE POSSIBLE

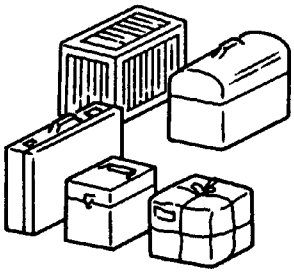
BM3 25 50 00 0 ACU0

Cargo Compartments - Capacities
Figure 002




**A**

BULK CARGO COMPARTMENT

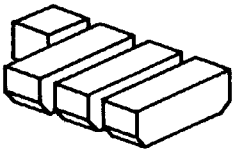


PASSENGER LUGGAGE
LIVE ANIMALS IN CAGES
AND BOXES BULK CARGO

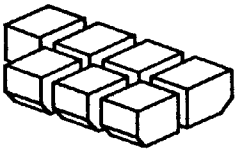
① NOTE: CARGO CAPACITY IS REDUCED WHEN ONE OR TWO ADDITIONAL CENTER TANK(S) IS/ARE INSTALLED IN FWD LOADING POSITION(S)

**B**

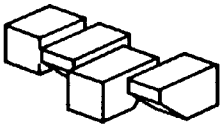
AFT CARGO COMPARTMENT



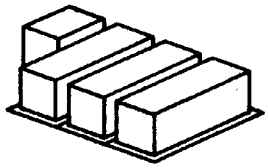
3 FULL SIZE CONT. LD6
AND 1 CONT. LD3



OR 7 CONT. LD3



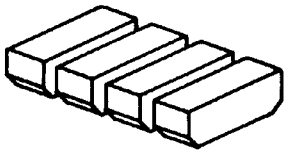
OR 3 HALF SIZE LD1
AND 1 CONT. LD3



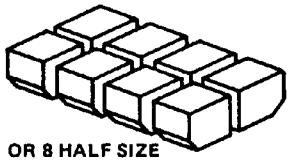
OR 3 PALLETS 2L3P
AND 1 CONT. LD3
OR COMBINATIONS
OF THE ABOVE ULDS

**C**

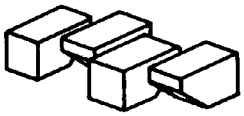
FWD CARGO COMPARTMENT



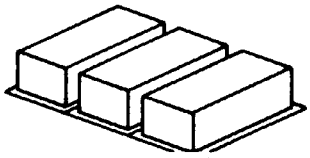
4 FULL SIZE CONTAINERS LD6



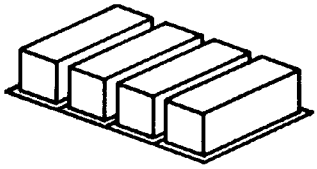
OR 8 HALF SIZE
CONTAINERS LD3



OR 4 HALF SIZE
CONTAINERS LD1



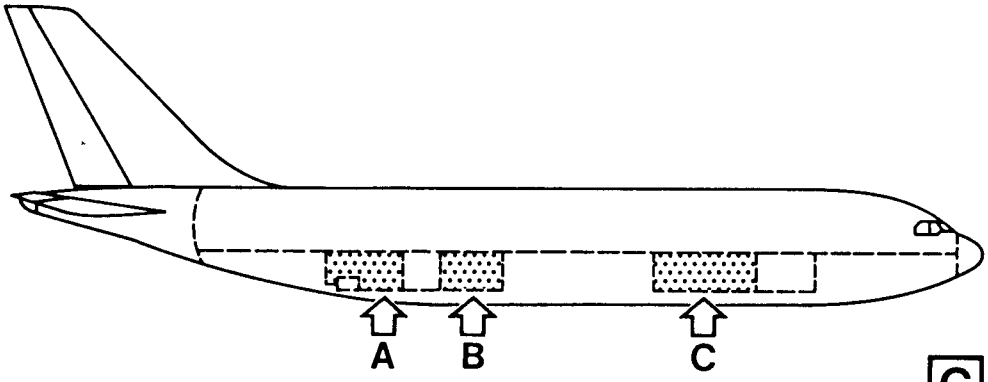
OR 3 PALLETS 88/96 x 125 INCH



OR 4 PALLETS 2L3P
OR COMBINATIONS
OF THE ABOVE ULDS

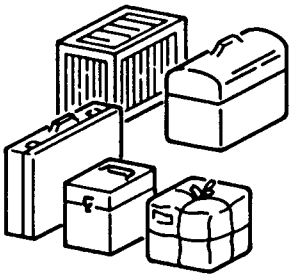
BM6 25 50 00 0 ACY0 00

Cargo Compartments - Capacities
Figure 003




**A**

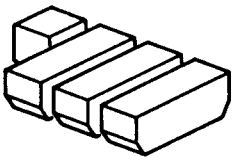
BULK CARGO COMPARTMENT



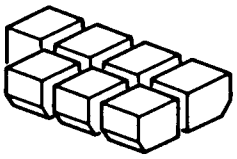
PASSENGER LUGGAGE
LIVE ANIMALS IN CAGES
AND BOXES BULK CARGO

**B** ①

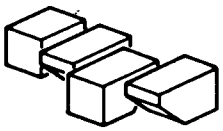
AFT CARGO COMPARTMENT



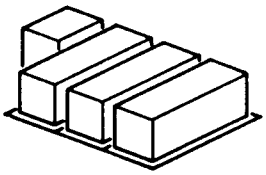
3 FULL SIZE CONTAINERS LD6
AND 1 CONTAINER LD3



OR 7 CONTAINERS LD3



OR 3 HALF SIZE LD1
AND 1 CONTAINER LD3

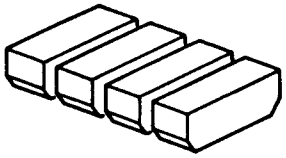


OR 3 PALLETS 60.4x125 INCH 2L3P
AND 1 CONTAINER LD3

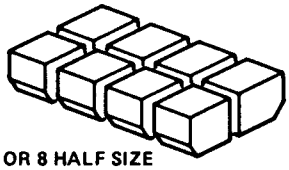
OR COMBINATIONS
OF THE ABOVE ULDs

**C**

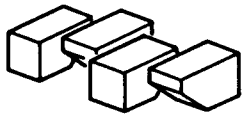
FWD CARGO COMPARTMENT



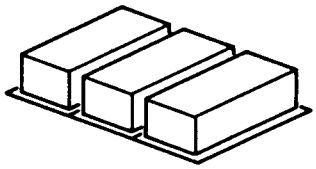
4 FULL SIZE CONTAINERS LD6



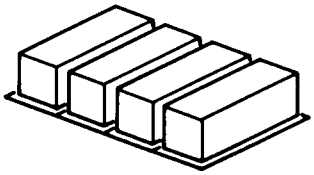
OR 8 HALF SIZE
CONTAINERS LD3



OR 4 HALF SIZE
CONTAINERS LD1



OR 3 PALLETS 88x125 INCH



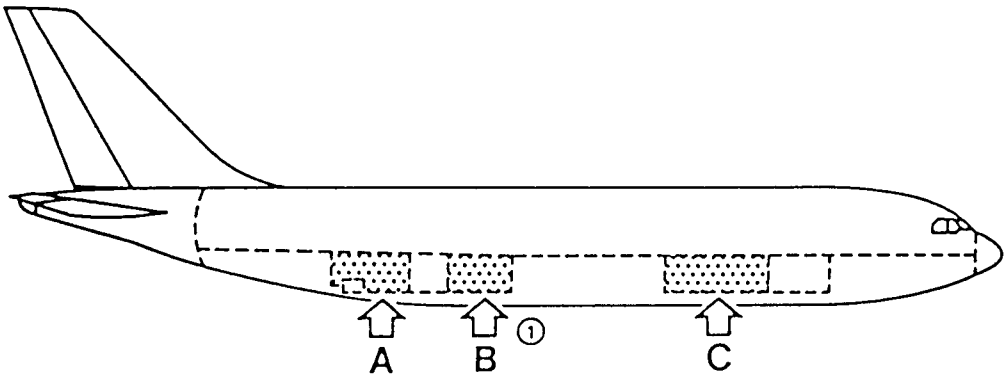
OR 4 PALLETS 60.4x125 INCH 2L3P

OR COMBINATIONS
OF THE ABOVE ULDs

① NOTE: CARGO CAPACITY IS REDUCED WHEN ONE ADDITIONAL CENTER TANK IS INSTALLED IN FWD LOADING POSITION

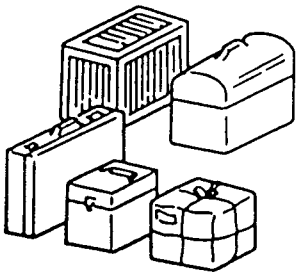
BM6 25 50 00 0 ACB0 00

Cargo Compartments - Capacities
Figure 004




A

BULK CARGO COMPARTMENT

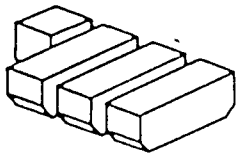


PASSENGER LUGGAGE
LIVE ANIMALS IN CAGES
AND BOXES BULK CARGO

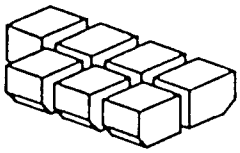
① NOTE: CARGO CAPACITY IS REDUCED WHEN ADDITIONAL CENTER TANK IS INSTALLED IN FWD LOADING POSITION

B

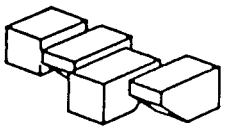
AFT CARGO COMPARTMENT



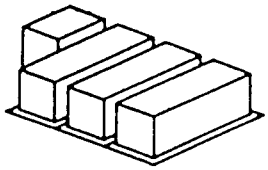
3 FULL SIZE CONT. LD6
AND 1 CONT. LD3



OR 7 CONT. LD3



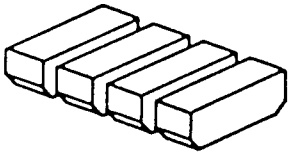
OR 3 HALF SIZE LD1



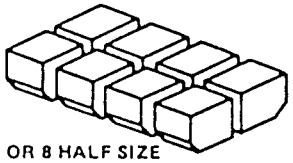
OR 3 PALLETS 60.4x125 INCH
2L3P/ALI 1000.001
AND 1 CONT. LD3
OR COMBINATIONS
OF THE ABOVE ULDS

C

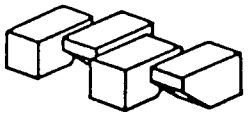
FWD CARGO COMPARTMENT



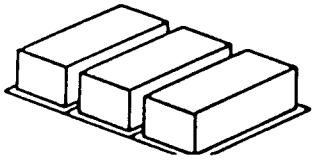
4 FULL SIZE CONTAINERS LD6



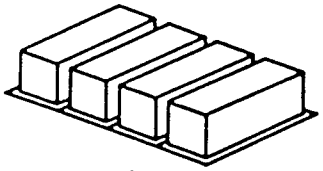
OR 8 HALF SIZE
CONTAINERS LD3



OR 4 HALF SIZE
CONTAINERS LD1



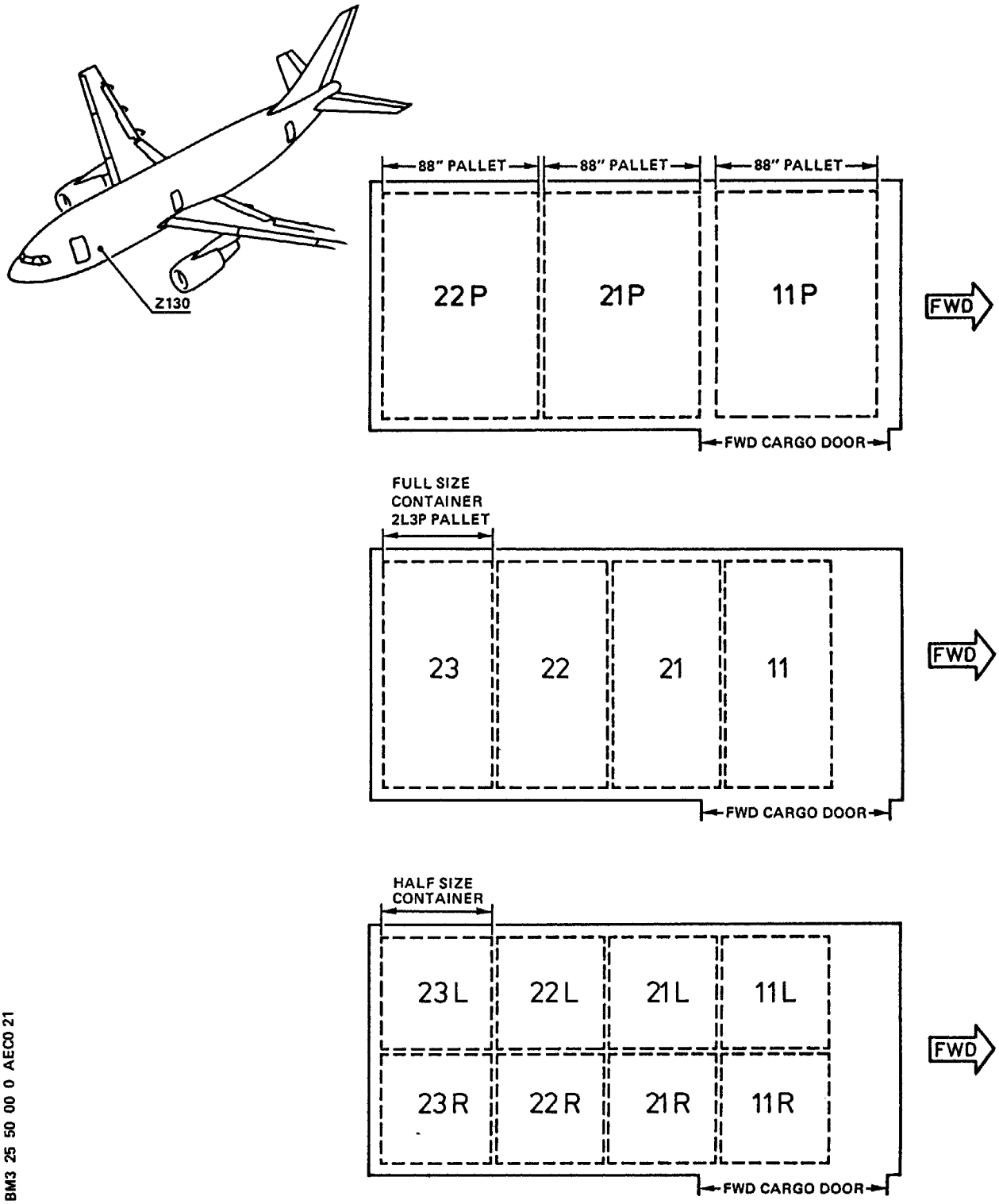
OR 3 PALLETS 88 x 125 INCH



OR 4 PALLETS 60.4x125 INCH
2L3P/ALI 1000.001
OR COMBINATIONS
OF THE ABOVE ULDS

BM6 25 50 00 0 ACH0 01

Cargo Compartments - Capacities
Figure 005




BM3 25 50 00 0 AEC0 21

FWD Cargo Compartment - Loading Positions
Figure 006

R EFFECTIVITY: 101-104,

PIA

(Ref. Fig. 007)

**ON A/C ALL

The FWD cargo compartment is located in Zone 130, between STA1446/FR20 and STA2188/FR38.2. The compartment is designed to carry pallets and containers, which are conveyed to and from their loading positions by electrically controlled drive units. Pallets are conveyed singly and containers singly or in pairs. The pallets/containers are secured in the required loading position by manually operated latches. The cargo compartment is provided with conditioned air, which maintains the temperature at a selected level between +4.5°C (+40.5 °F) and +22 °C (+71.5 °F).

B. AFT Cargo Compartment

**ON A/C 101-200,

(Ref. Fig. 008)

**ON A/C 001-100,

(Ref. Fig. 009)

**ON A/C 101-200,

Post SB 28-2105 For A/C 101-200,

Post SB 28-2108 For A/C 101-200,

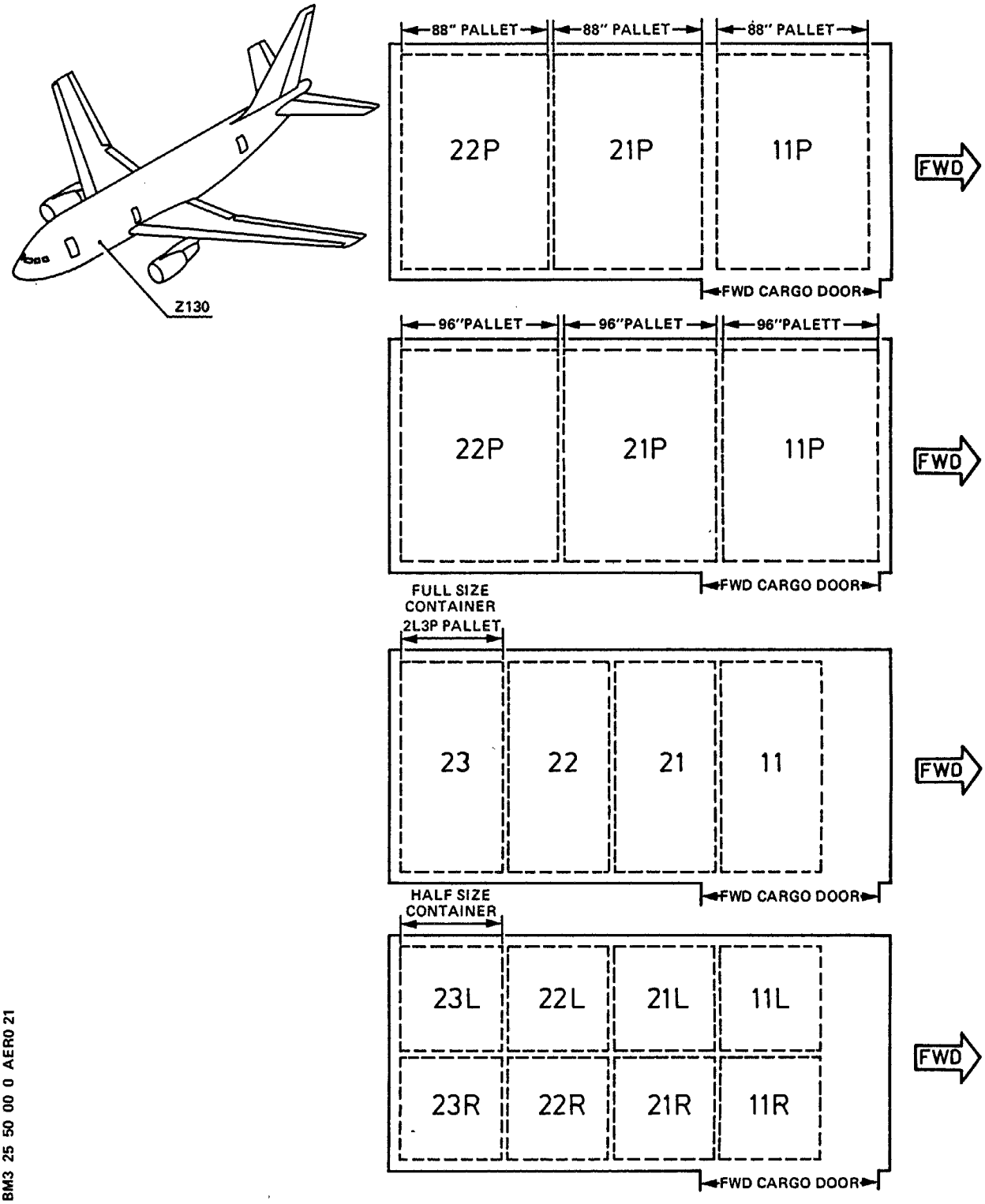
(Ref. Fig. 010)

**ON A/C 001-100,

The AFT cargo compartment is located in Zones 150/160, between STA2193/FR54 and STA3438/FR63b. The compartment is designed to carry containers and 2L3P pallets, which are conveyed to and from their loading positions by electrically controlled drive units, in a similar manner as in the FWD cargo compartment. The 2L3P pallets have the same base size as full-size containers, and are secured in position by the container latches. Other size pallets can not be loaded into the AFT cargo compartment.

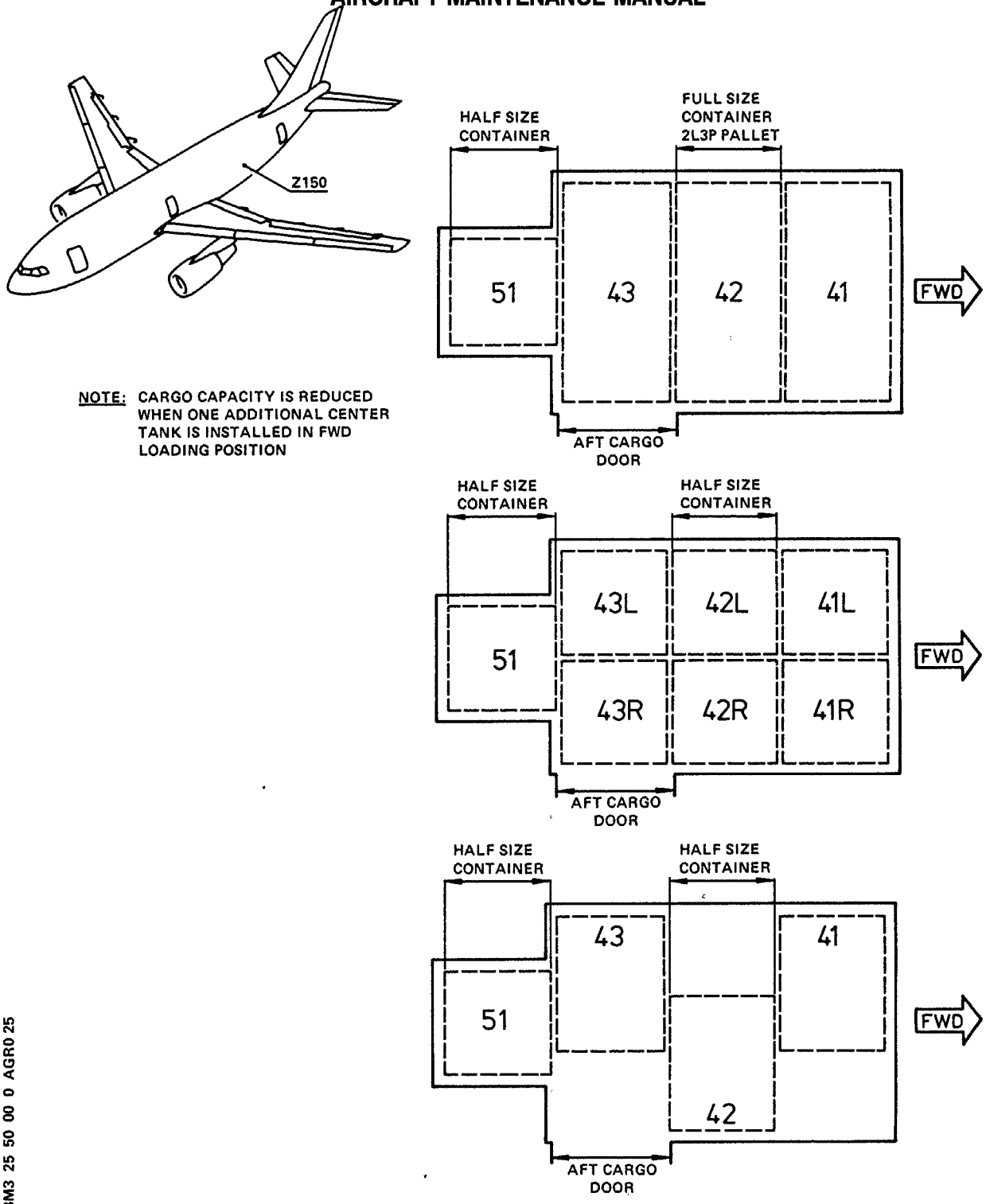
**ON A/C 101-200,

The AFT cargo compartment is located in Zones 150/160, between STA2193/FR54 and STA3438/FR63b. An additional loading position is provided aft of the cargo compartment door, between STA3438/FR63b and STA3620/FR67, reducing the size of the Bulk cargo compartment. The AFT cargo compartment is designed to carry containers and 2L3P pallets, which are conveyed to and




BM3 25 50 00 0 AER0 21

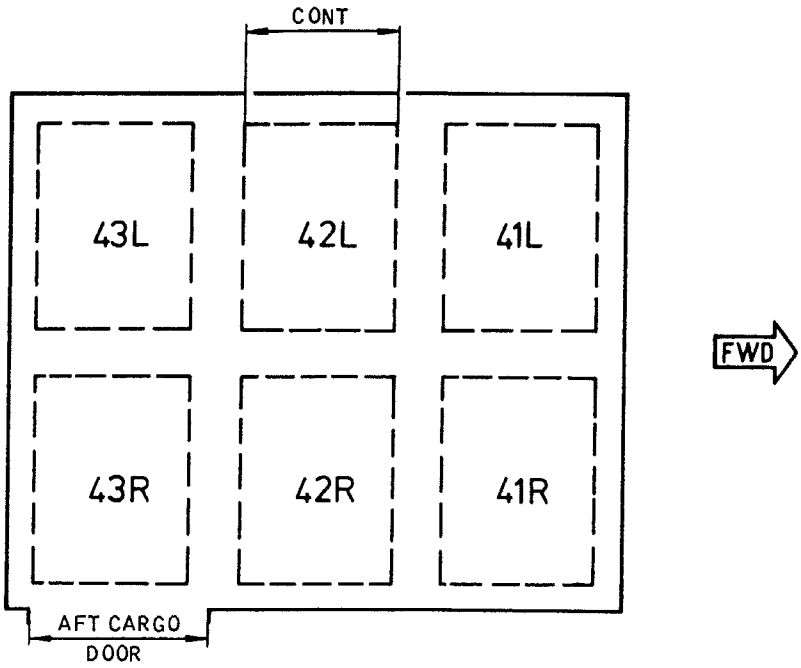
FWD Cargo Compartment - Loading Positions
Figure 007




NOTE: CARGO CAPACITY IS REDUCED WHEN ONE ADDITIONAL CENTER TANK IS INSTALLED IN FWD LOADING POSITION

BM3 25 50 00 0 AGRD 25

AFT Cargo Compartment - Loading Positions
Figure 008




BM3 25 50 00 0 AGU0

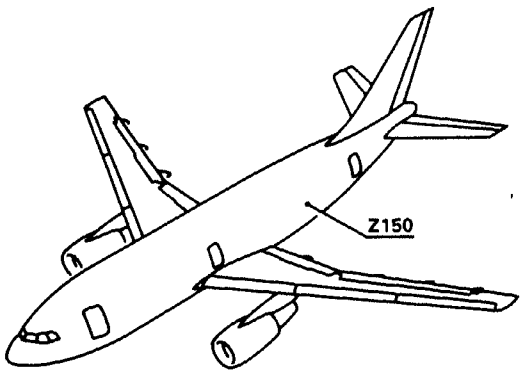
AFT Cargo Compartment - Loading Positions
Figure 009

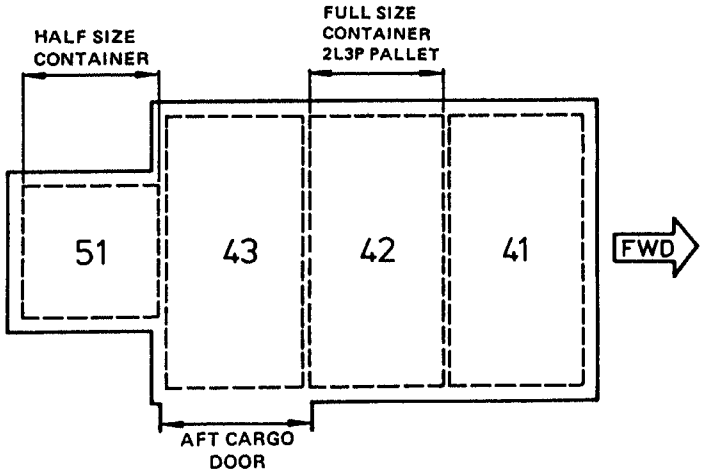
R EFFECTIVITY: 001-100,

PIA

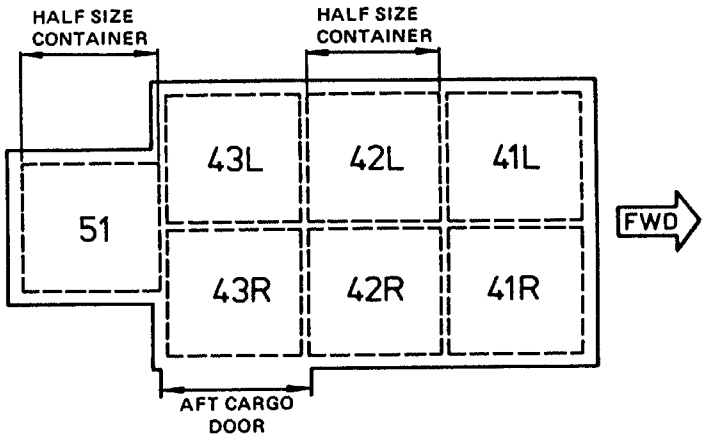


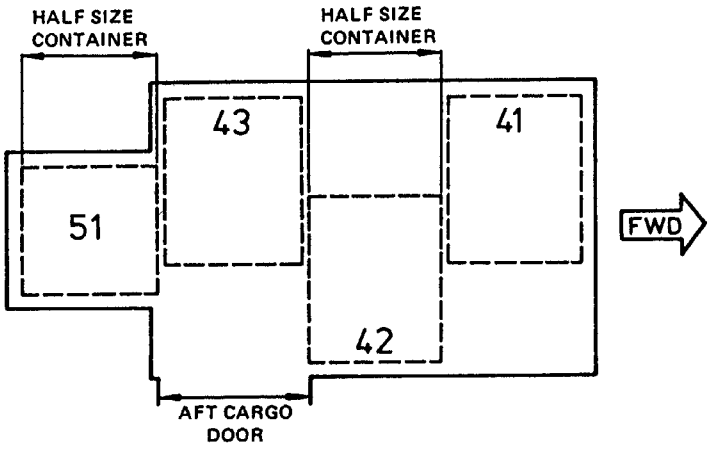
Printed in France




NOTE: CARGO CAPACITY IS REDUCED WHEN ONE OR TWO ADDITIONAL CENTER TANK(S) IS/ARE INSTALLED IN FWD LOADING POSITION(S)




BM6 25 50 00 0 AGF0 00

AFT Cargo Compartment - Loading Positions
Figure 010

from their loading positions by electrically controlled drive units, in a similar manner as in the FWD cargo compartment. The 2L3P pallets have the same base size as full-size containers, and are secured in position by the container latches. Other size pallets can not be loaded into the AFT cargo compartment.
The AFT cargo compartment has an Additional Center Tank (ACT) installed in the FWD loading position.
NOTE : When an Additional Center Tank (ACT) is installed and ULD's or other cargo shall be loaded in the AFT or Bulk cargo compartment the loading position directly aft of the ACT must be occupied by one full size container or two half size containers loaded to 80% of their volume with a crushable load.

**ON A/C ALL

C. Bulk Compartment

**ON A/C 101-200,

(Ref. Fig. 011)

**ON A/C 001-100,

(Ref. Fig. 012)

**ON A/C 101-200,

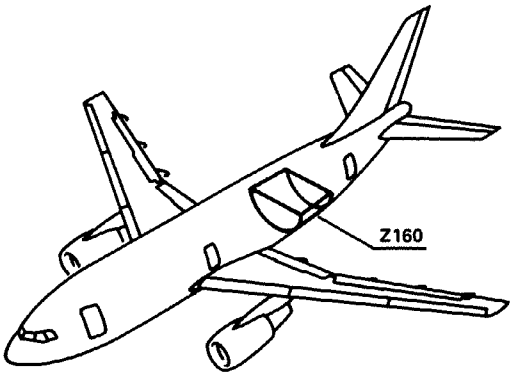
(Ref. Fig. 013)

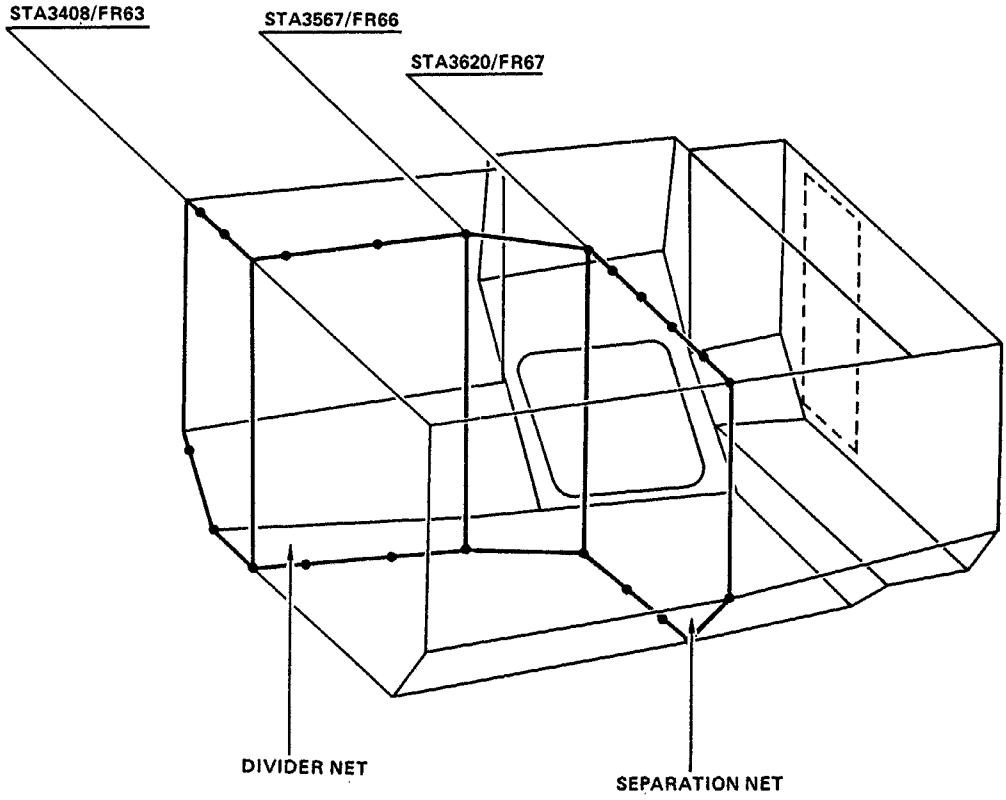
**ON A/C 001-100,

(Ref. Fig. 014)

**ON A/C 101-200,

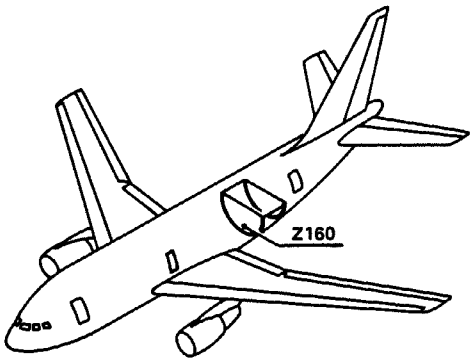
The Bulk compartment is located in Zone 160, and occupies the full width of the fuselage between STA3620/FR67 and STA3780/FR70, with an extension on the right-hand side of the fuselage between STA3438/FR63b and STA3620/FR67. The compartment is designed for passenger luggage, bulk cargo and the carriage of live animals in cages or boxes. Conditioned air is provided to maintain the compartment temperature at a selected level between +5°C (+41°F) and +26°C (+79°F) within a tolerance of ±2°C (±3.5°F).
A separation net divides the Bulk cargo compartment from the AFT cargo compartment. The net is secured to the aircraft structure and consists of a safety net overlaid with a curtain. The curtain is sealed to the compartment sidewalls and ceiling to prevent leakage of conditioned air into the AFT cargo compartment.
There is a clear area each side of the compartment of 0.1 m² (155 in.²) between the inclined sidewall and the curtain. This clear area allows fire extinguishing agent to flow between the AFT and the Bulk cargo

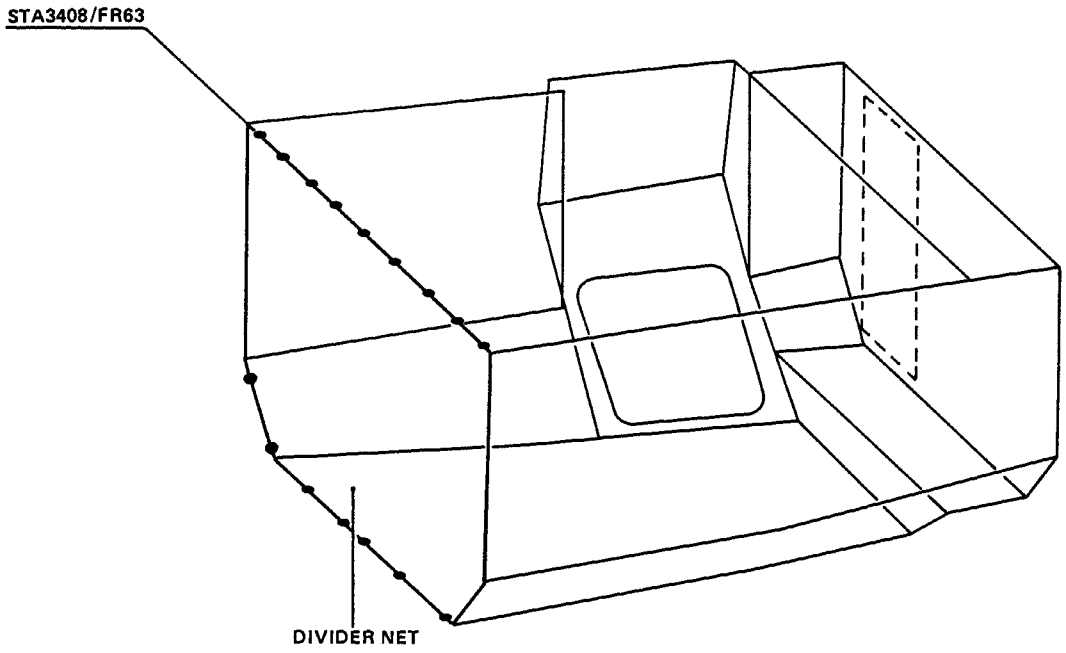



BM3 25 50 00 0 AJM0

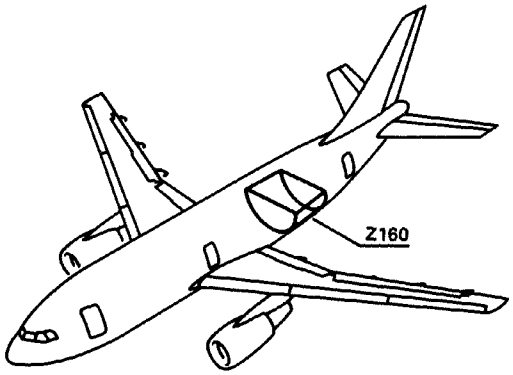
Separation Net - Location
Figure 011

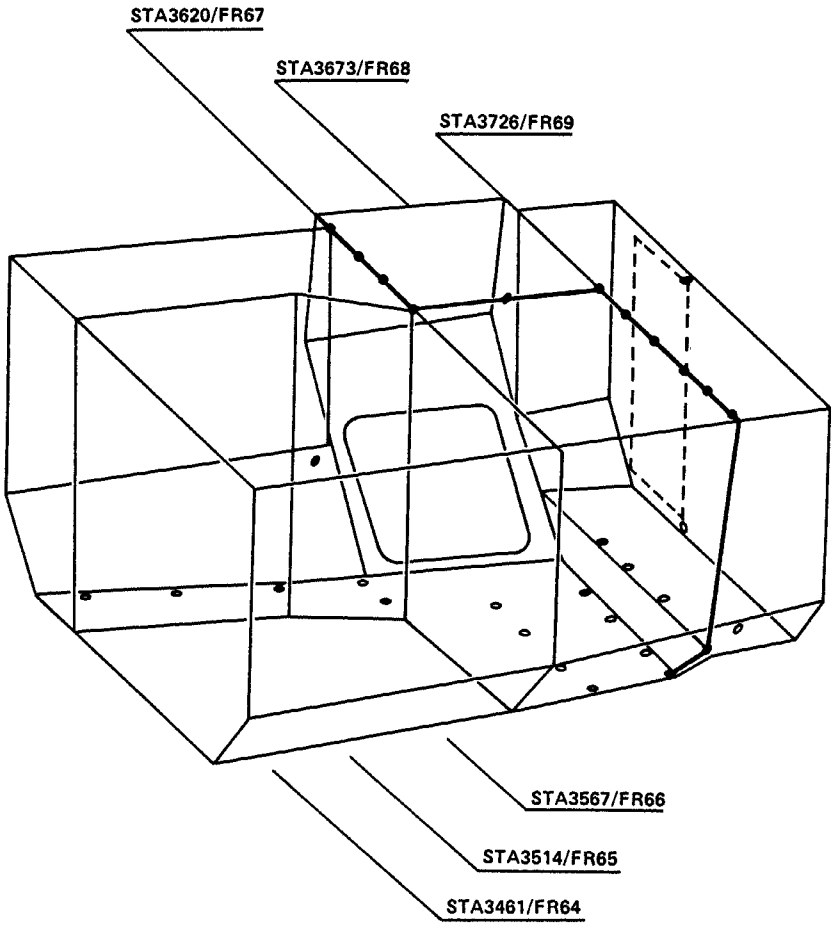



BM3 25 50 00 0 AJU0

Separation Net - Location
Figure 012

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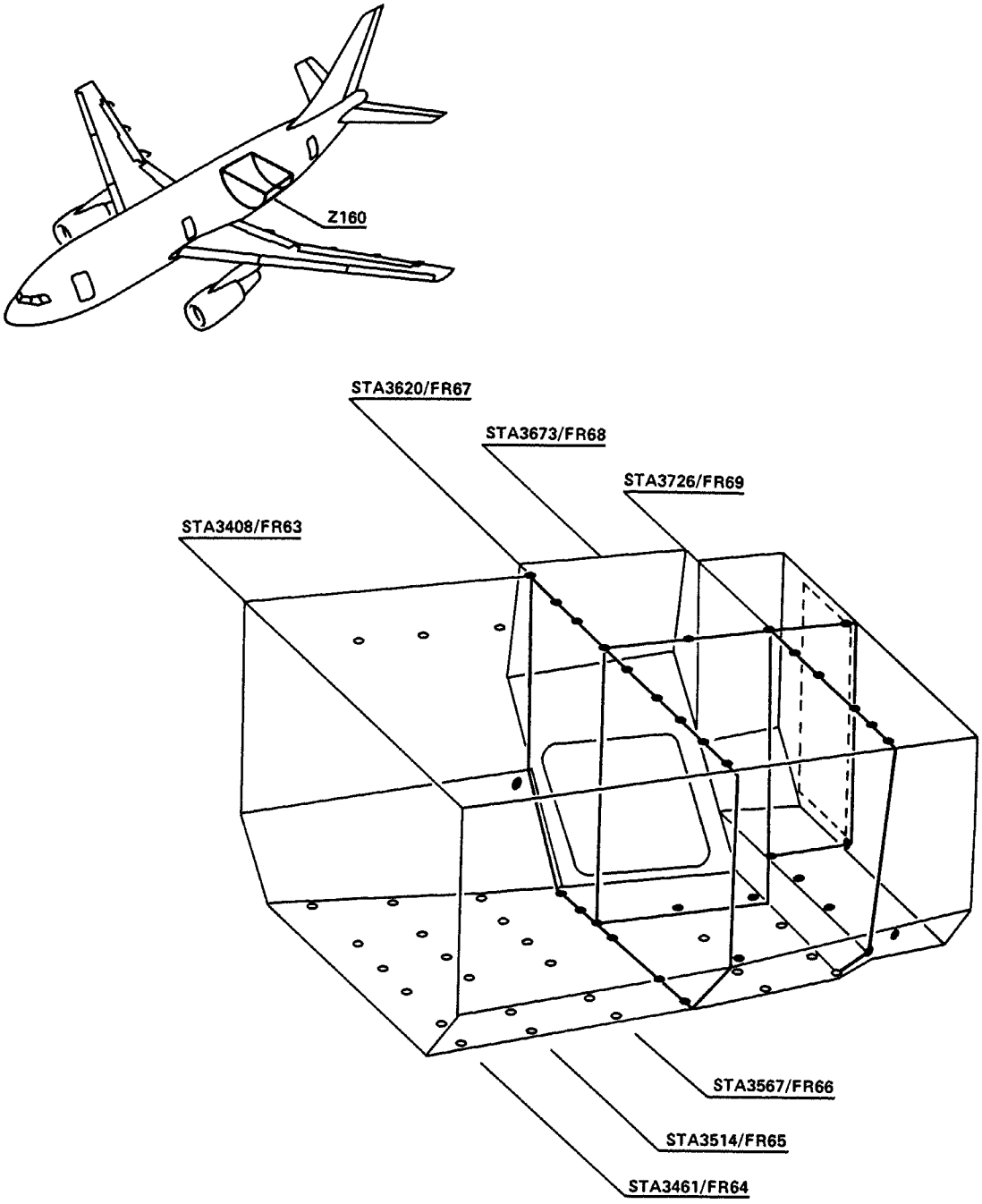
Tie down Points - Location
Figure 013

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Tie down Points - Location
Figure 014

compartment. The curtain is also sealed to the floor structure to prevent seepage of spilt liquids from the AFT cargo compartment into the Bulk cargo compartment. Decompression panels are incorporated into the curtain to prevent explosive decompression. The separation net can be disconnected at the right-hand side, to give access to the Bulk cargo compartment from the AFT cargo compartment.
Restraining nets divide the Bulk cargo compartment laterally and longitudinally, and keep the door area clear for door opening. The nets are secured to the aircraft structure, and are rolled up to the ceiling for loading and unloading. Tie-down points are provided to secure cargo in position.

**ON A/C 001-100,

The Bulk cargo compartment is located in Zone 160, and occupies the full width of the fuselage between STA3620/FR67 and STA3780/FR70. The Bulk cargo compartment is designed for passenger luggage, bulk cargo and the carriage of live animals in cages or boxes. Conditioned air is provided to maintain the compartment temperature at a selected level between +5 °C (+41 °F) and +26 °C (+79 °F) within a tolerance of ±2 °C (±3.5 °F).
A separation net divides the Bulk cargo compartment from the AFT cargo compartment (Ref. Fig. 012). The net is secured to the aircraft structure and consists of a safety net overlaid with a curtain. The curtain is sealed to the compartment sidewalls and ceiling to prevent leakage of conditioned air into the AFT cargo compartment. There is a clear area each side of the compartment of 0.1 m² (155 in.²) between the inclined sidewall and the curtain. This clear area allows fire extingushing agent to flow between the AFT and the Bulk cargo compartment. The curtain is also sealed to the floor structure to prevent seepage of spilt liquids from the AFT cargo compartment into the Bulk cargo compartment. Decompression panels are incorporated into the curtain to prevent explosive decompression.
The separation net can be disconnected at the right-hand side, to give access to the Bulk cargo compartment from the AFT cargo compartment.
Restraining nets divide the Bulk cargo compartment laterally and logitudinally, and keep the door area clear for door opening. The nets are secured to the aircraft structure, and are rolled up to the ceiling for loading and unloading. Tie-down points are provided to secure cargo in position.

**ON A/C ALL

D. Flooring
The flooring in the cargo compartments consists of removable panels manufactured from honeycomb laminates, which are secured to the compartment floor structure.

E. Drainage

**ON A/C 001-100,

(Ref. Fig. 015)

**ON A/C 101-200,

(Ref. Fig. 016)

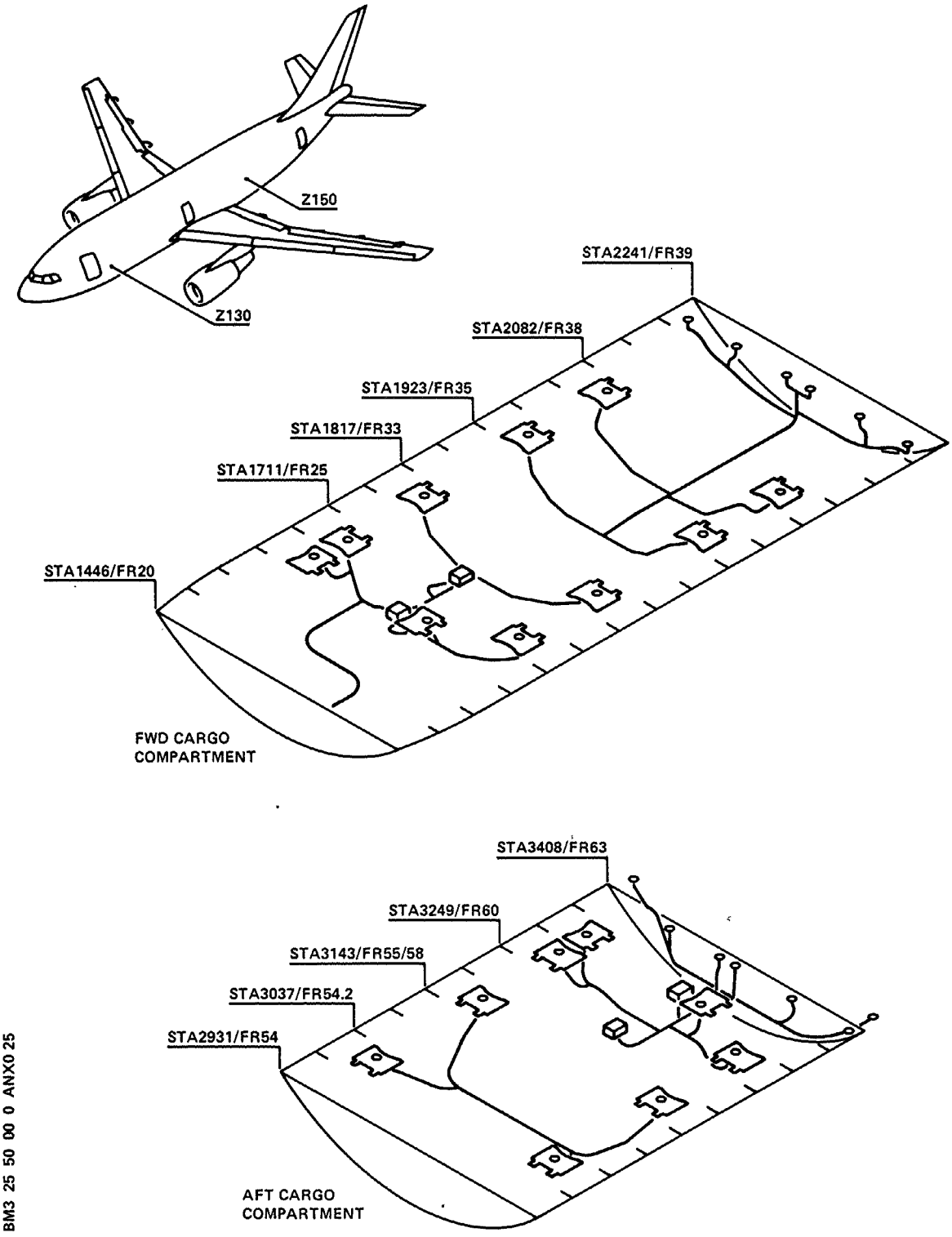
**ON A/C 001-100,

The drain system of the FWD and AFT cargo compartment is installed under the compartment floor. The system collects rain water and spilt liquids. The drain system comprises drain pans, drain sumps, drain gullys and hoses. The drain pans are located below the drive units, and the drain sumps below the retractable guides of the cargo loading system, and are sealed to the compartment floor structure. All inlet points in the drain system are filtered.
In the FWD cargo compartment a drain gully is located in each roller track aft of STA2188/FR38.2.
In the AFT cargo compartment additional drain gullys are provided in the cargo compartment floor, on both sides of the fuselage between STA3408/FR63 and the separation net. Further drainage gullys are provided in the roller tracks forward of STA3408/FR63 (roller tracks +Y1470, +Y805, +Y140, -Y140 and -Y805). Flexible hoses connect the drain pans, drain sumps and drain gullys to intermediate collector hoses, which in turn direct the collected liquids overboard via the drain valves in the lower fuselage shell.

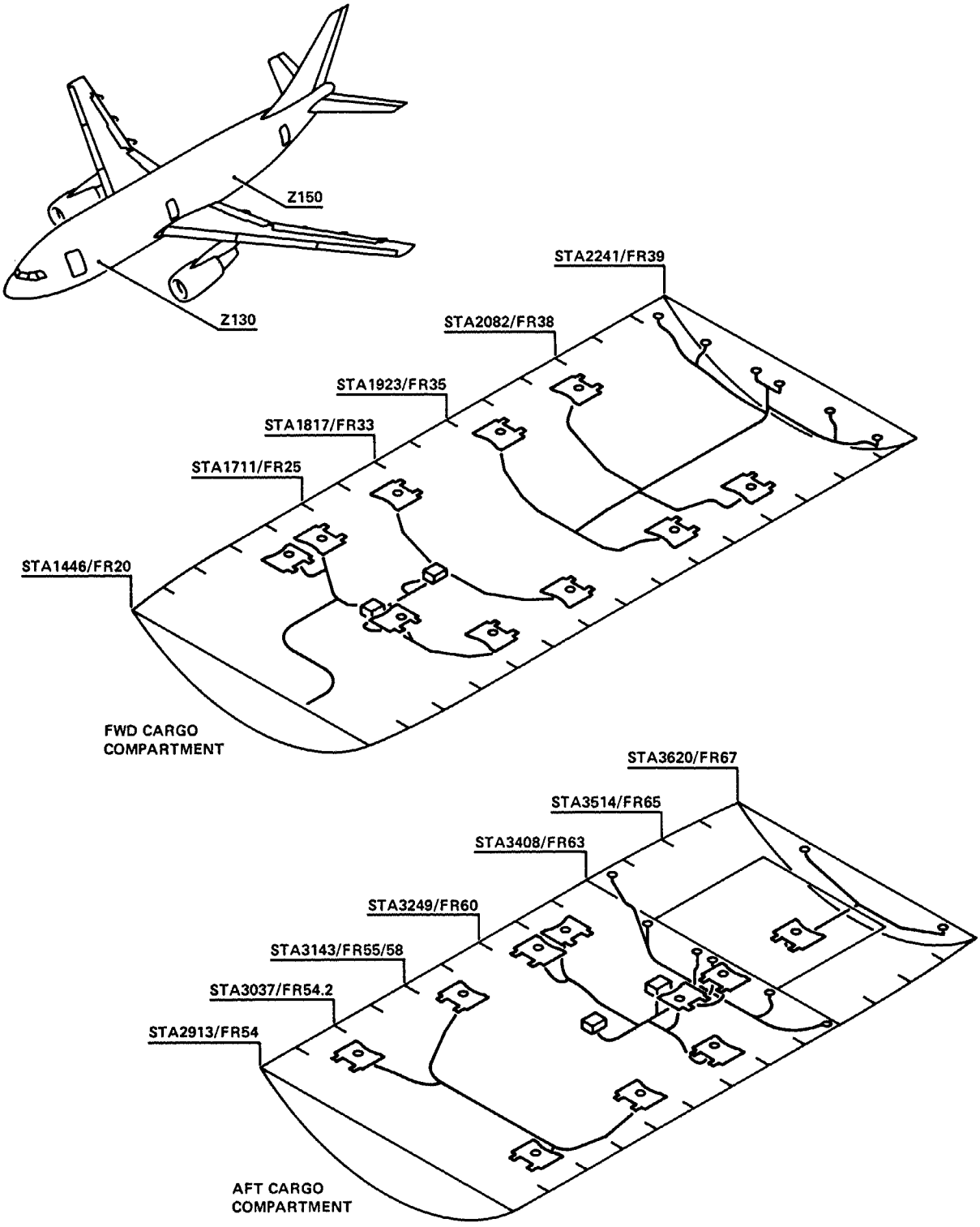
**ON A/C 101-200,

The drain system of the FWD and AFT cargo compartment is installed under the compartment floor. The system collects rain water and spilt liquids. The drain system comprises drain pans, drain sumps, drain gullys and hoses. The drain pans are located below the drive units, and the drain sumps below the retractable guides of the cargo loading system, and are sealed to the compartment floor structure. All inlet points in the drain system are filtered.
In the FWD cargo compartment a drain gully is located in each roller track aft of STA2188/FR38.2.
In the AFT cargo compartment an additional drain gully is provided in the cargo compartment floor, on the RH side of the fuselage between STA3408/FR63 and STA3461/FR64. Further drainage gullys are provided in the roller tracks forward of STA3408/FR63 (roller tracks +Y1470, +Y805, +Y140, -Y140 and -Y805).
In the Bulk cargo compartment two drain gullys are located in the compartment floor betwen STA3567/FR66 and STA3620/FR67.
Flexible hoses connect the drain pans, drain sumps and drain gullys to intermediate collector hoses, which in turn direct the collected liquids overboard via the drain valves in the lower fuselage shell.

**ON A/C ALL




Cargo Compartments - Drainage
Figure 015

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Cargo Compartments - Drainage
Figure 016

F. Sidewall Panels
The sidewalls of the cargo compartments are lined with panels manufactured from a flame-resistant synthetic material. The panels are attached by brackets to a lining structure.

G. Ceiling Panels
The ceiling of the cargo compartments is lined with panels manufactured from a flame-resistant synthetic material. The panels are attached by quick-release fasteners and attachment sections to the ceiling structure.

H. Decompression Panels
Decompression panels are integrated in the cargo compartment paneling for rapid decompression. In "Blow out" direction the panels respond at a pressure of 90 mb and in the "Blow in" direction at a pressure of 35 mb.

1. Maintenance Procedure to achieve Air Tightness in the Cargo Compartments

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

CAUTION : BE CAREFUL WHEN YOU INSPECT/REPLACE THE SEALING OF THE CARGO COMPARTMENT LININGS AND FLOOR PANELS AND BALL MATS. MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED. PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

A. Reason for the Job
To make sure that the cargo compartments are air tight.

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1)Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| (2)Material No. 09-016 | Sealants (Ref. 20-31-00) |
| (3)Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 25-00-00, P. Block 801 | Equipment Furnishings |
| - 53-10-20, P. Block 601 | Floor Panels |
| - 53-10-50, P. Block 601 | Fixed Partition |

C. Installation of the Sidewall and Ceiling Panels
(1)Before you install any panel, do an inspection of it for damage.
(2)If you find damage, compare it with the limits given (Ref. 25-00-00, P. Block 801). If necessary, repair the panels (Ref. 25-00-00, P. Block 801).
(3)Make sure that the decompression panels are correctly installed.
(4)Do an inspection of the sealing strips at upper and lower sidewall panels and ceiling panels.
(5)Make sure that:
- there are no gaps between the sealing strips,
- the sealing strips are well bonded at the panels,
- the sealing strips are flexible,
- the sealing strips have the same thickness per panel,
- the surface of the sealing strips is not fractional,
- no sealing strips are missing or damaged.

Renew or install sealing strips as necessary.
(6)Make sure that for the sealing strips Material No. 08-005A and not 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.
(7)Clean the contact area where the sealing strips of the sidewall and

ceiling panels touch the structure, using cleaning agent (Material No. 11-003).
(8)Do an inspection of this structure for integrity and good condition.
(9)If the structure is damaged, repair or replace it.
(10)Make sure that the contact areas of the panels at the structure are flat.
(11)Close any open gaps or holes with sealant (Material No. 09-016) and make it flat.
(12)Make sure that after application and drying of sealant, the contact surfaces are still flat. Rework as necessary.
(13)Make sure that all fasteners at sidewall panels and ceiling panels exist and that they are not damaged.
(14)After installation of the sidewall and ceiling panel, make sure that all fasteners are fully tightened.
(15)After installation, make sure that there are no open gaps or holes between the panels and no open gaps or holes between the panels and the structure.

D. Installation of Ball Mats
(1)Before you install any ball mat, do an inspection of it for damage. If necessary, repair or replace damaged ball mats.
(2)Do an inspection of the sealing strips at the ball mats.
(3)Make sure that:
- there are no gaps between the sealing strips,
- the sealing strips are well bonded at the ball mats,
- the sealing strips are flexible,
- the sealing strips have the same thickness per ball mat,
- the surface of the sealing strips is not fractional,
- no sealing strips are missing or damaged.

Renew or install sealing strips as necessary.
(4)Make sure that for the sealing strips Material No. 08-005A and not 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.
(5)Clean the contact area, where the sealing strips touch the structure, using cleaning agent (Material No. 11-003).
(6)Do an inspection of this structure for integrity and good condition.
(7)If the structure is damaged, repair or replace it.
(8)Make sure that contact areas of the panels at the structure are flat.
(9)Close any open gaps or holes with sealant (Material No. 09-016) and make it flat.
(10)Make sure that after application and drying of sealant, the contact surfaces are still flat. Rework as necessary.
(11)Make sure that all fasteners exist and that they are not damaged.
(12)After installation of the ball mats, make sure that all fasteners are fully tightened.

E. Installation of Electrical Harness
(1)Make sure that all grommets are air tight where the electrical harness goes through.
(2)Close gaps as necessary with sealant (Material No. 09-016).
(3)Make sure that all seals are air tight where the electrical harness goes through. Renew the seals if necessary.

F. Installation of the Drainage System
(1)Make sure that the filter elements in the drain gullys in the roller tracks are clean. Any dirt must be removed.
(2)Make sure that the drain inlets are correctly installed.
(3)After installation, make sure that all fasteners are fully tightened.
(4)After installation, make sure that there are no open gaps or holes between the drain pans of the power drive units and the roller tracks. Close and open gaps or holes with sealant (Material No. 09-016).
(5)After installation, make sure that there are no open gaps or holes between the drain sump of the retractable Y-guides and the structure. Close any open gaps or holes with sealant (Material No. 09-016).

G. Installation / Inspection of Floor Panels, Cover Plates and Corner Sheets
(1)Before you install any panel, do an inspection of it for damage (Ref. 53-10-20, P. Block 601).
(2)Do an inspection of the sealing strips at the floor panels, cover plates and corner sheets.

NOTE : The corner sheets and the cover plates of the AFT cargo compartment are installed with sealant (Material No. 09-016).

(3)Make sure that:
- there are no gaps between the sealing strips,
- the sealing strips are well bonded at the panels,
- the sealing strips are flexible,
- the sealing strips have the same thickness per panel,
- the surface of the sealing strips is not fractional,
- no sealing strips are missing or damaged.

Renew or install sealing strips as necessary.
(4)Make sure that for the sealing strips Material No. 08-005A and not 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.
(5)Clean the contact area, where the sealing strips of the panels touch the structure, using cleaning agent (Material No. 11-003).
(6)Do an inspection of this structure for integrity and good condition.
(7)If the structure is damaged, repair or replace it.
(8)Make sure that the contact areas of the panels at the structure are flat.
(9)Close any open gaps or holes with sealant (Material No. 09-016) and make it flat.
(10)Make sure that after application and drying of the sealant, the contact surfaces are still flat. Rework as necessary.
(11)Make sure that all fasteners exist and that they are not damaged.
(12)After installation of the panels, make sure that all fasteners are fully tightened.
(13)After installation, make sure that there are no gaps or holes between the panels and no open gaps or holes between the panels and the structure.

H. Installation of the Partition Panels
(1)Before you install any panel, do an inspection of it for damage (Ref. 53-10-50, P. Block 601).

(2)Make sure that the decompression panels are correctly installed.
(3)Do an inspection of the sealing strips at the panels for damage.
(4)Make sure that:
- there are no gaps between the sealing strips,
- the sealing strips are well bonded at the panels,
- the sealing strips are flexible,
- the sealing strips have the same thickness per panel,
- the surface of the sealing strips is not fractional,
- no sealing strips are missing or damaged.

Renew or install sealing strips as necessary.
(5)Make sure that for the sealing strips Material No. 08-005A and not 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.
(6)Clean the contact area, where the sealing strips of the panels touch the structure, using cleaning agent (Material No. 11-003).
(7)Do an inspection of this structure for integrity and good condition.
(8)If the structure is damaged, repair or replace it.
(9)Make sure that the contact areas of the panels at the structure are flat.
(10)Close any open gaps or holes with sealant (Material No. 09-016) and make it flat.
(11)Make sure that after application and drying of the sealant, the contact surfaces are still flat. Rework as necessary.
(12)Make sure that all fasteners exist and that they are not damaged.
(13)After installation of the panels, make sure that all fasteners are fully tightened.
(14)After installation, make sure that there are no open gaps or holes between the panels and no open gaps or holes between the panels and the structure.

J. Close-Up
(1)Make sure that the work area is clean and clear of all tools and any other items of equipment.

1. Cargo Compartments - Visual Check of Linings, Floor Panels, Sealing Strips and Access Doors at FR20.

A. Reason for the Job

R General Visual Check of the Cargo Compartments

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform, 2.7 m (9 ft.) |
| (2) | Circuit Breaker Safety Clips and Tags |
| (3) | Warning Notice |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-00-00, P. Block 801 | Equipment/Furnishing - Approved Repairs Structural Repair Manual (SRM) |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

C. Procedure

(1) Job Set-Up

(a) Position access platform.

(b) Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(c) Make certain that the electronics racks ventilation is correct.

(d) Open the FWD and/or AFT cargo-compartment door(s) (Ref. 52-30-00, P. Block 1).

(e) Install door actuator safety lock(s) at the FWD and/or AFT cargo-compartment door actuator(s) (Ref. 52-30-00, P. Block 301).

(f) Put the warning notice on the control panel of the cargo loading system to tell persons not to use it.

(g) Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CAGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CAGO DOOR PUMP | 7GX | 333/T51 |

**ON A/C 001-100,

** For FWD and AFT Cargo Compartments

(2)Inspection Check

CAUTION : BE CAREFUL WHEN YOU INSPECT THE SEALING OF THE CARGO COMPARTMENT LININGS AND FLOOR PANELS.
MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED.
PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

R (a)Examine each floor panel and centerline coverplates for cracks
R and other damage.
R (b)Make sure that each floor panel and centerline coverplates is in
R the correct position.
(c)Examine each decompression panel for cracks and other damage.
(d)Make sure that each decompression panel is in the correct position.
(e)Examine each ceiling panel for cracks and other damage.
(f)Make sure that the ceiling panels are correctly attached.
(g)Examine each lining panel for cracks and other damage.
(h)Make sure that the lining panels are correctly attached.
(j)Examine each sealing strip for correct condition.
(k)Make sure that each sealing strip is in the correct position.
(l)Examine that the fire extinguisher nozzles are not blocked or damaged.
(m)Do a visual check of the door structure, the webs and the hinge arms at FR20.
(n)Do a visual check of the internal skin of the access doors at FR20.
(p)Make sure that there is no:
1 Corrosion damage:
- If you find corrosion damage, refer to the Structural Repair Manual (Ref. SRM 512200, P. Block 001) for types, inspection, removal and corrosion protection.
2 Other damage (cracks, scratches, stress, marks, dents, bumps,...)
- If you find this type of damage, refer to the AMM (Ref. 25-00-00, P. Block 801) for damage classification and corrective action.

**ON A/C 101-200,

** For FWD and AFT Cargo Compartments

(2)Inspection Check

CAUTION : BE CAREFUL WHEN YOU INSPECT THE SEALING OF THE CARGO COMPARTMENT LININGS AND FLOOR PANELS.
MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED.
PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

NOTE : With the Additional Center Tank installed in the AFT cargo compartment, do the inspection as far as you can see the components.

R (a)Examine each floor panel and centerline coverplates for cracks
R and other damage.
R (b)Make sure that each floor panel and centerline coverplates is in
R the correct position.
(c)Examine each decompression panel for cracks and other damage.
(d)Make sure that each decompression panel is in the correct position.
(e)Examine each ceiling panel for cracks and other damage.
(f)Make sure that the ceiling panels are correctly attached.
(g)Examine each lining panel for cracks and other damage.
(h)Make sure that the lining panels are correctly attached.
(j)Examine each sealing strip for correct condition.
(k)Make sure that each sealing strip is in the correct position.
(l)Examine that the fire extinguisher nozzles are not blocked or damaged.
(m)Do a visual check of the door structure, the webs and the hinge arms at FR20.
(n)Do a visual check of the internal skin of the access doors at FR20.
(p)Make sure that there is no:
1 Corrosion damage:
- If you find corrosion damage, refer to the Structural Repair Manual (Ref. SRM 512200, P. Block 001) for types, inspection, removal and corrosion protection.

2 Other damage (cracks, scratches, stress, marks, dents, bumps,...)
- If you find this type of damage, refer to the AMM (Ref. 25-00-00, P. Block 801) for damage classification and corrective action.

**ON A/C 101-200,

Post SB 28-2105 For A/C 101-200,

** For FWD and AFT Cargo Compartments

(2)Inspection Check

CAUTION : BE CAREFUL WHEN YOU INSPECT THE SEALING OF THE CARGO

COMPARTMENT LININGS AND FLOOR PANELS.
MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED.
PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

NOTE : With the Additional Center Tank(s) installed in the AFT cargo compartment, do the inspection as far as you can see the components.

R (a)Examine each floor panel and centerline coverplates for cracks
R and other damage.
R (b)Make sure that each floor panel and centerline coverplates is in
R the correct position.
(c)Examine each decompression panel for cracks and other damage.
(d)Make sure that each decompression panel is in the correct position.
(e)Examine each ceiling panel for cracks and other damage.
(f)Make sure that the ceiling panels are correctly attached.
(g)Examine each lining panel for cracks and other damage.
(h)Make sure that the lining panels are correctly attached.
(j)Examine each sealing strip for correct condition.
(k)Make sure that each sealing strip is in the correct position.
(l)Examine that the fire extinguisher nozzles are not blocked or damaged.
(m)Do a visual check of the door structure, the webs and the hinge arms at FR20.
(n)Do a visual check of the internal skin of the access doors at FR20.
(p)Make sure that there is no:
1 Corrosion damage:
- If you find corrosion damage, refer to the Structural Repair Manual (Ref. SRM 512200, P. Block 001) for types, inspection, removal and corrosion protection.
2 Other damage (cracks, scratches, stress, marks, dents, bumps,...)
- If you find this type of damage, refer to the AMM (Ref. 25-00-00, P. Block 801) for damage classification and corrective action.

**ON A/C ALL

(3)Close-Up
(a)Make sure that the work area is clean and clear of tools and other items of equipment.
(b)Remove the safety clips and tags and close the circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(c)Remove the door actuator safety lock(s) (Ref. 52-30-00, P.Block 301).
(d)Close the FWD and/or AFT cargo-compartment door(s) (Ref. 52-30-00, P. Block 1).
(e)De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).
(f)Remove the warning notice.
(g)Remove the access platform.

2. Separation Net - General Visual Inspection

A. Reason for the Job
General Visual Inspection of the Separation Net in the AFT Cargo Compartment

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform, 2.7 m (9 ft.) |
| (2) | Circuit Breaker Safety Clips and Tags |
| (3) | Warning Notice |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

C. Procedure

(1)Job Set-Up

(a)Position access platform.

(b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(c)Make certain that the electronics racks ventilation is correct.

(d)Open the AFT cargo-compartment door (Ref. 52-30-00, P. Block 1).

(e)Install door actuator safety lock to the AFT cargo-compartment door actuator (Ref. 52-30-00, P. Block 301).

(f)Put the warning notice on the control panel of the cargo loading system to tell persons not to use it.

(g)Open, safety and tag the following circuit breakers:

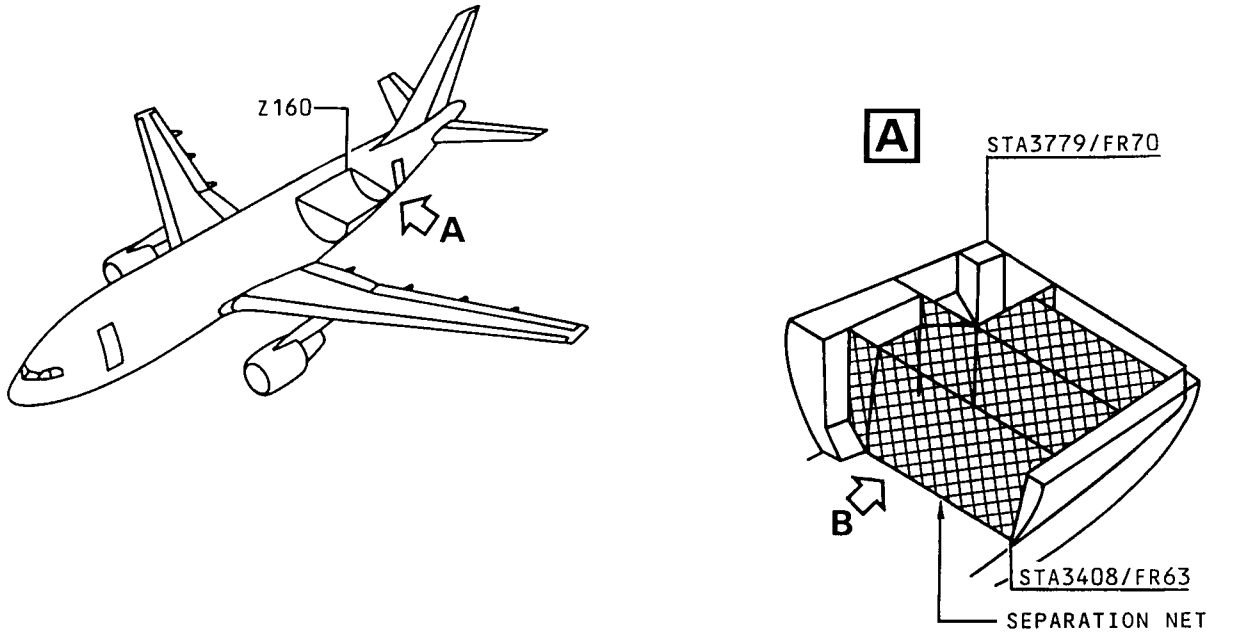
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CAGO DOOR PUMP | 7GX | 333/T51 |

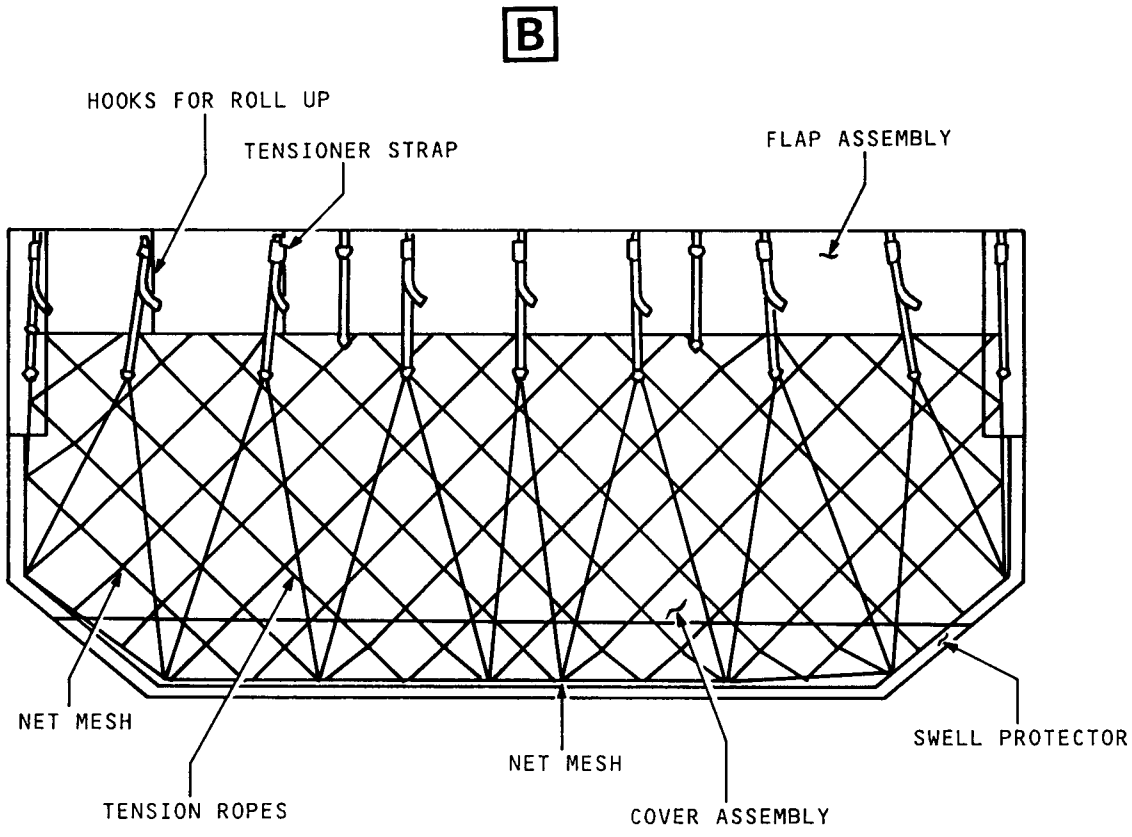
(2)Visual Inspection of the Separation Net

NOTE : For classification of damage refer to steps (3)(a) to (3)(c).

**ON A/C 001-100,

(Ref. Fig. 601)

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Separation Net
Figure 601

**ON A/C 101-200,

(Ref. Fig. 602)

**ON A/C 001-100,

(a)Examine the separation net for damage and contamination.
(b)Make sure that the separation net is in the correct condition.
(c)Examine all the net attachment points and the adjacent areas for cracks, corrosion and other damage.

(3)Classification of the Seaparation Net Damage

(a)Allowable Damage

- Net-mesh
  fraying of rope and rope knots with 50% of rope strands still intact
- Tension Ropes
  fraying of rope with at least 50% of rope strands intact,
  ropes cut - at least 2 adjacent ropes to either side still intact,
- Tensioner Strap
  hardware deformed but operable, webbing frayed but not cut,
- Hooks for Roll-Up Storage
  parts damaged, inoperable or missing,
- Cover Assembly
  cuts, holes, triangle,
- Flap Assemblies
  cuts, holes, triangles, partly ripped from attachment rail,
- Swell Protector
  cuts, holes.

Allowable damage not restricting fit, function and airworthiness.
Repair is advised but not immediately required.

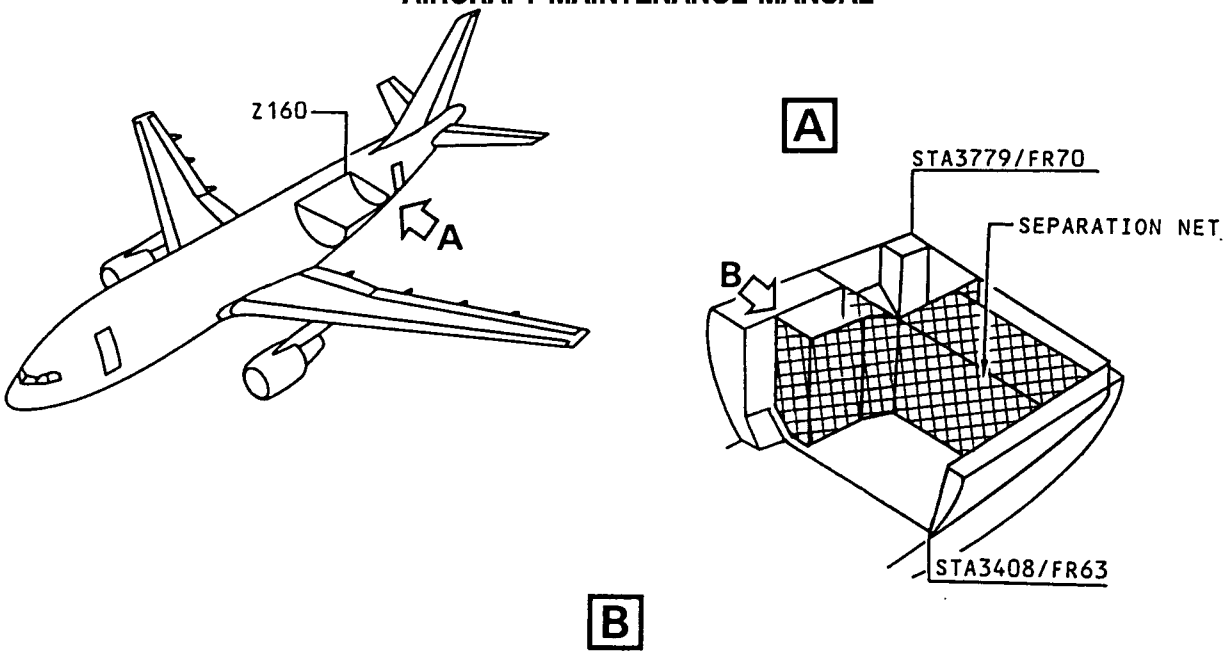
(b)Minor Damage

- Net-mesh
  mesh rope cut or knot cut, mesh rope cut from tie down attachment,
- Cover Assembly
  attachment to net assembly broken,
- Flap Assemblies
  one or more missing,
- Swell Protector
  attachment loose.

Minor damage that might influence fit and function, but do not influence airworthiness, on-the-spot repair is advised but not mandatory.

(c)Major Damage

- Tension Ropes
  two or more adjacent ropes cut,
- Tensioner Strap
  inoperable, destroyed hardware, cut webbing on one or more tensioner straps.




Separation Net
Figure 602

Major damage that influence fit and function and airworthiness. Assembly must be removed from service for repair or replacement.

**ON A/C 101-200,

(a)Examine the separation net for damage and contamination.
(b)Make sure that the separation net is in the correct condition.
(c)Examine all the net attachment points and the adjacent areas for cracks, corrosion and other damage.

(3)Classification of the Separation Net Damage

(a)Allowable Damage

- Tarpaulin Side Covers, Decompression Cover, Swell Protectors
  holes and/or tears up to an area of 100 cm² (15.5 sq.in.),
  sewing attachment broken on a length up to 50 mm (1.96 in.) but not more than one break,
- Hooks for Roll-Up Storage
  more than one hook per net inoperative.

Allowable damage not restricting fit, function and airworthiness. Repair is advised but not immediately required.

(b)Minor Damage

- Tension Buckle
  one tension buckle inoperative,
- Knotted Intersection of Rope Meshes
  one intersection broken
- Rings
  one ring inoperative
- Rope Material
  yellow rope core material visible up to a total length of 25 mm (1 in.) per net,
- Webbing Material
  one sewing pattern damaged (stitches broken),
- Lift-the-Dot Fasteners
  one fastener inoperative or missing.

Minor damage that might influence fit and function but do not influence airworthiness. On-the-spot repair is advised but not mandatory.

(c)Major Damage

- Tarpaulin, Side Covers, Decompression Cover, Swell Protectors
  all damage including allowable damage up to missing items,
- Tension Buckle
  more than one tension buckle inoperative,
- Knotted Intersection of Rope Meshes
  more than one intersection broken,
- Markings
  incomplete or missing markings,
- Tie Down Fittings
  one inoperative fitting per net,
- Rope Material

yellow rope core material visible more than 25 mm (1 in.) of total length per net,
- Webbing Material
visible damage, such as tears, holes, fraying, fused spots, breaks etc., more than one sewing pattern damaged (stitches broken).
- lift-the-dot fasteners
two or more fasteners inoperative or missing.

Major damage that influence fit and function and airworthiness. Assembly must be removed from service for repair or replacement.

**ON A/C ALL

D. Close-Up
(1)Make sure that the work area is clean and clear of tools and other items of equipment.
(2)Remove the safety clips and tags and close the circuit breakers 501MY, 506MY, 7GX and 23GX.
(3)Remove the door actuator safety lock (Ref. 52-30-00, P.Block 301).
(4)Close the AFT cargo-compartment door (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove the warning notice.
(7)Remove the access platform.

3. Bulk Cargo Compartment - Visual Check of Linings, Floor Panels, Sealing Strips and Access Door at FR70.

A. Reason for the Job
General Visual Check of the Bulk Cargo Compartment

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform, 2.7 m (9 ft.) |
| (2) | Circuit Breaker Safety Clips and Tags |
| (3) | Warning Notice |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-00-00, P. Block 801 | Equipment/Furnishing - Approved Repairs Structural Repair Manual (SRM) |
| - 52-30-00, P. Block 201 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

C. Procedure
(1)Job Set-Up
(a)Position access platform.

(b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(c)Make certain that the electronics racks ventilation is correct.
(d)Open the AFT cargo-compartment door (Ref. 52-30-00, P. Block 1).
(e)Install door actuator safety lock at the AFT cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(f)Put the warning notice on the control panel of the cargo loading system to tell persons not to use it.
(g)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CAGO DOOR PUMP | 7GX | 333/T51 |

(2)Inspection Check

CAUTION : BE CAEFUL WHEN YOU INSPECT THE SEALING OF THE CAGO COMPARTMENT LININGS AND FLOOR PANELS.
MAKE SURE THAT THE CAGO COMPARTMENTS ARE CORRECTLY SEALED.
PRESSURE LEAKS THROUGH THE CAGO COMPARTMENT CA CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

(a)Examine each floor panel for cracks and other damage.
(b)Make sure that each floor panel is in the correct position.
(c)Examine each decompression panel for cracks and other damage.
(d)Make sure that each decompression panel is in the correct position.
(e)Examine each ceiling panel for cracks and other damage.
(f)Make sure that the ceiling panels are correctly attached.
(g)Examine each lining panel for cracks and other damage.
(h)Make sure that the lining panels are correctly attached.
(j)Examine each sealing strip for correct condition.
(k)Make sure that each sealing strip is in the correct position.
(l)Examine that the fire extinguisher nozzles are not blocked or damaged.
(m)Do a visual check of the door structure, the webs and the hinge arms at FR70.
(n)Do a visual check of the internal skin of the access doors at FR70.
(p)Make sure that there is no:
1 Corrosion damage:
- If you find corrosion damage, refer to the Structural Repair Manual (Ref. SRM 512200, P. Block 001) for types, inspection, removal and corrosion protection.
2 Other damage (cracks, scratches, stress, marks, dents, bumps,...)
- If you find this type of damage, refer to the AMM (Ref. 25-00-00, P. Block 801) for damage classification and corrective action.

D. Close-Up

(1)Make sure that the work area is clean and clear of tools and other items of equipment.
(2)Remove the safety clips and tags and close the circuit breakers 501MY, 506MY, 7GX and 23GX.
(3)Remove the door actuator safety lock (Ref. 52-30-00, P.Block 301).
(4)Close the AFT cargo-compartment door (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove the warning notice.
(7)Remove the access platform.

4. Operational Check of the Lower Deck Cargo Compartment Drainage System

A. Reason for the Job
Check the Drain System for Obstruction/Blockages

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform, 2.7 m (9 ft.) |
| (2) | Circuit Breaker Safety Clips and Tags |
| (3) | Warning Notice |
| (4) | Container (Qty.2) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 201 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

C. Procedure
(1)Job Set-Up
(a)Position access platform.
(b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(c)Make certain that the electronics racks ventilation is correct.
(d)Open the FWD and/or AFT cargo-compartment door(s) (Ref. 52-30-00, P. Block 1).
(e)Install door actuator safety lock(s) to the FWD and/or AFT cargo-compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(f)Put the warning notice on the control panel of the cargo loading system to tell persons not to use it.
(g)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B05 |
| 128VU | HYDRAULIC/ACCU PRESS CTL AND CAGO DOOR PUMP | 7GX | 802/P70 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B05 |
| 128VU | HYDRAULIC/ACCU PRESS CTL AND CAGO DOOR PUMP | 7GX | 802/P70 |

For the FWD, AFT and Bulk Cargo Compartments

(2)Check the drain system for obstruction/blockages:
  (a)Put the empty container in position below the applicable drain mast.
  (b)Fill the other container with water.
  (c)Pour a quantity of water into the drain outlet.
  (d)Make sure that the water flows from the applicable drain mast into the container.
  (e)Investigate and rectify any blockages.
  (f)Repeat the check at each drain outlet in the FWD, AFT and Bulk cargo compartments.

    NOTE : Do not use water that has contamination or unwanted material in it. Discard the contaminated water and use clean water for the next check.

  (g)When all drain outlets have been checked and are in the correct condition, discard the water.

(3)Close-Up
  (a)Make sure that the work area is clean and clear of tools and other items of equipment.
  (b)Remove the safety clips and tags and close the circuit breakers
    For FWD Cargo Compartment:
    1MY, 6MY, 23GX and 7GX
    For AFT Cargo Compartment:
    501MY, 506MY, 23GX and 7GX.
  (c)Remove the door actuator safety lock (Ref. 52-30-00, P.Block 301).
  (d)Close the FWD and/or AFT cargo-compartment door (Ref. 52-30-00, P. Block 1).
  (e)De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).
  (f)Remove the warning notice.
  (g)Remove the access platform.

4. Check forward and aft cargo compartment drain pans for evidence of obstruction

A. Reason for the Job
Check the Drain System for Obstruction/Blockages

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform, 2.7 m (9 ft.) |
| (2) | Circuit Breaker Safety Clips and Tags |
| (3) | Warning Notice |
| (4) | Container (Qty.2) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 201 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

C. Procedure
(1)Job Set-Up
(a)Position access platform.
(b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(c)Make sure that the electronics racks ventilation is correct.
(d)Open the FWD and/or AFT cargo-compartment door(s) (Ref. 52-30-00, P. Block 1).
(e)Install door actuator safety lock(s) on the FWD and/or AFT cargo-compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(f)Put the warning notice on the control panel of the cargo loading system to tell persons not to use it.
(g)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B05 |
| 128VU | HYDRAULIC/ACCU PRESS CTL AND CAGO DOOR PUMP | 7GX | 802/P70 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B05 |
| 128VU | HYDRAULIC/ACCU PRESS CTL AND CAGO DOOR PUMP | 7GX | 802/P70 |

For the FWD, AFT and Bulk Cargo Compartments

(2)Visual check of the drain pans.
  (a)Examine the drain pans for cracks, corrosion and other damage.
  (b)Make sure that the perforated pans are clean and not blocked.
(3)Close-Up
  (a)Make sure that the work area is clean and clear of tools and other items of equipment.
  (b)Remove the safety clips and tags and close the circuit breakers
     For FWD Cargo Compartment:
     1MY, 6MY, 23GX and 7GX
     For AFT Cargo Compartment:
     501MY, 506MY, 23GX and 7GX.
  (c)Remove the door actuator safety lock (Ref. 52-30-00, P.Block 301).
  (d)Close the FWD and/or AFT cargo-compartment door (Ref. 52-30-00, P. Block 1).
  (e)De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).
  (f)Remove the warning notice.
  (g)Remove the access platform.

WARNING : APPLY MATERIALS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS. SOME MATERIALS ARE FLAMMABLE AND/OR TOXIC. AVOID INHALING FUMES. USE IN WELL VENTILATED AREA. OBSERVE FIRE REGULATIONS.
SOME MATERIALS CONTAIN IRRITANTS. WEAR PROTECTIVE GLOVES AND PROTECT EYES. WASH IMMEDIATELY WITH CLEAN WATER, IF SKIN OR EYES ARE AFFECTED.
CAUTION : MATERIAL NO. 11-001 IS CORROSIVE. REMOVE ALL TRACES AFTER USE WITH CLEAN WATER AND SPONGE. DRY AREA USING CLEAN LINT-FREE CLOTH.

1. Reason for the Job

A. Normal Cleaning, Floor Areas, FWD and AFT Cargo Compartments

B. Cleaning, following Spillage of Liquids from Cargo, FWD and AFT Cargo Compartments

C. Cleaning of Structure, Following Seepage of Liquid Spillage from Cargo, FWD and AFT Cargo Compartments

NOTE : The relevant steps of the following procedures can also be applied to the BULK cargo compartment.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Protective Gloves |
| C. | Face Mask |
| D. | Protective Goggles |
| E. | Vacuum Cleaner |
| F. | Brush |
| G. | Non-metallic Scraper |
| H. | Clean, Lint-Free Cloth |
| J. | Hot Air Drier |
| K. | Blanking Caps |
| L. | Masking Tape |
| M. | Circuit Breaker Safety Clips and Tags |
| N. | Warning Notice Prohibiting Operation of Cargo Loading System |
| O. | Potassium Bichromate ($K^2Cr^2O^7$) |
| P. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| Q. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| R. Material No. 11-001 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 25-52-22, P. Block 401 | Ball Mats |
| - 25-54-80, P. Block 201 | FWD Cargo Compartment Drain System |
| - 25-55-80, P. Block 1 | AFT Cargo Compartment Drain System |
| - 51-00-00, P. Block 701 | Structures |

- 51-74-10, P. Block 801 Removal of Corrosion
- 51-75-10, P. Block 801 Repair of Paint Coatings
- 52-30-00, P. Block 1 Cargo Compartment Doors
- 52-30-00, P. Block 301 FWD and AFT Cargo Compartment Doors
- 53-10-29, P. Block 401 FWD Cargo Compartment Floor Panels
- 53-10-33, P. Block 401 AFT Cargo Compartment Floor Panels

3. Procedure

A. Job Set-Up
(1)Position access platform(s).
(2)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(3)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(4)Display warning notice - DO NOT OPERATE CARGO LOADING SYSTEM - on cargo loading system control panel(s).
(5)Open, safety and tag the following circuit breakers as necessary:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartments

B. Normal Cleaning
(1)Cleaning of floor areas, FWD and AFT cargo compartments.
(a)Remove foreign objects from around roller tracks, latches, drive units, edges and depressions using a brush and vacuum cleaner.
(b)Remove loose deposits using a non-metallic scraper, vacuum cleaner or brush.

C. Cleaning, following Spillage of Liquids from Cargo

(1)Cleaning of contaminated areas, FWD and AFT cargo compartments.
(a)Remove contaminated components from area affected by spillage.
NOTE : Contaminated components must be returned to workshop for cleaning and re-application of lubricants and corrosion-preventive materials.
(b)Remove components in the area to be cleaned, which could be contaminated or damaged by water and/or cleaning agents.
(c)Blank drain filters with masking tape and cap electrical connectors.
(d)Carry out steps B.(1)(a),(b).
(e)Clean contaminated and surrounding area with cleaning agent (Material No. 11-001).
(f)Rinse work area with clean water and sponge.
(g)Dry work area using clean lint-free cloth.
(h)Clean work area with a solution of clean water, 5% potassium bichromate and 0.5% cleaning agent (Material No. 11-001).
(j)Flush thoroughly with clean water to remove all traces of cleaning materials.
NOTE : Steps (e) thru (j) must be carried out at temperatures above freezing point.
(k)Dry with hot air drier.
(l)Remove corrosion, if evident (Ref. 51-74-10, P. Block 801).
(m)Repair damaged coating of corrosion-preventive compound and moisture removing oil (Material No. 05-005, 05-027) as necessary (Ref. 51-75-10, P. Block 801).
NOTE : Do not allow special materials to contact rollers, drive units and latches.
(n)Remove masking tape from drain filters and examine filters.
(o)Remove contaminated, blocked or damaged drain filters. FWD compartment (Ref. 25-54-80, P. Block 201), AFT compartment (Ref. 25-55-80, P. Block 1).
(p)Remove blanking caps from electrical connectors and install all components previously removed.

D. Cleaning of Structure, following Seepage of Liquid Spillage from Cargo
(1)Cleaning of contaminated areas, FWD and AFT cargo compartments.
NOTE : The following steps are necessary when there is evidence of spillage seeping between floor panels/ball mats and under ball strips.
(a)Repeat steps C.(1)(a) thru C.(1)(k).
(b)Remove floor panels in affected areas. FWD compartment (Ref. 53-10-29, P. Block 401), AFT compartment (Ref. 53-10-33, P. Block 401).
(c)Remove ball mats and ball strips in affected areas (Ref. 25-52-22, P. Block 401).
(d)Clean and renovate structure and roller tracks exposed (Ref. 51-00-00, P. Block 701).
(e)Install floor panels removed in step (b).
(f)Install ball mats and ball strips removed in step (c).
(g)Repeat steps C.(1)(l) thru C.(1)(p).

E. Test
(1)Carry out functional test of all components and systems that were removed and subsequently installed.

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 23GX, 7GX and 501MY and 506MY.
(3)Remove warning notice from cargo loading system control panel(s).
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)Remove access platform(s).

## HEAT AND SOUND INSULATION - REMOVAL/INSTALLATION

1. Reason for the Job

Replacement of an insulation blanket after removal of an insulation or junction panel.

2. Procedure
(Ref. Fig. 401)

A. Job Set-Up
(1)If the insulation blanket to be removed is situated under an insulation or junction panel, remove this panel.

B. Removal
(1)Remove retaining thread.
(2)Remove damaged insulation blanket.

C. Preparation of Replacement Component
(1)Check that insulation blanket is clean, in good condition and correctly identified.

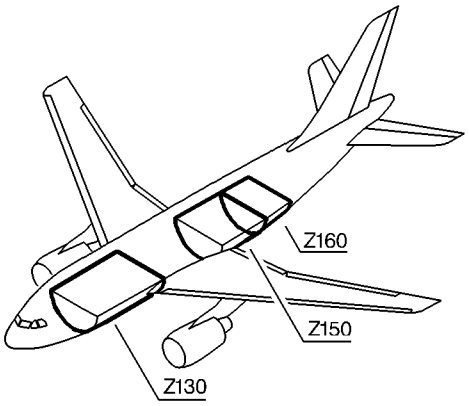
NOTE : The part number indicates the installation position.

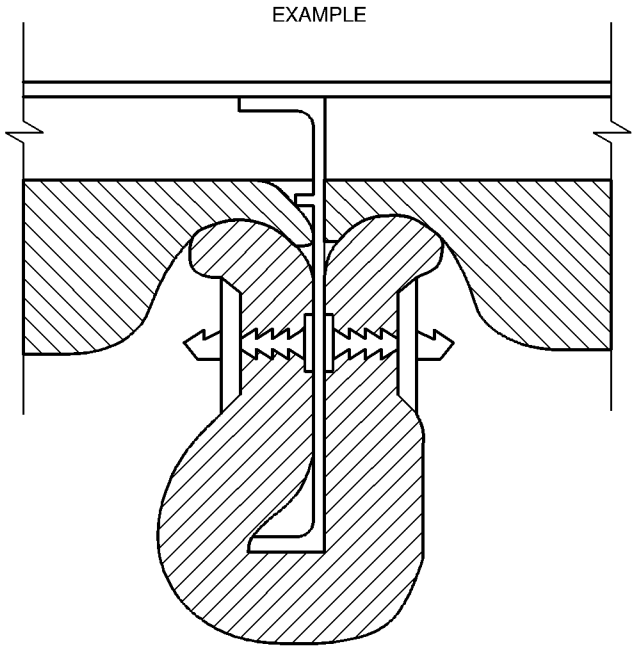
D. Installation

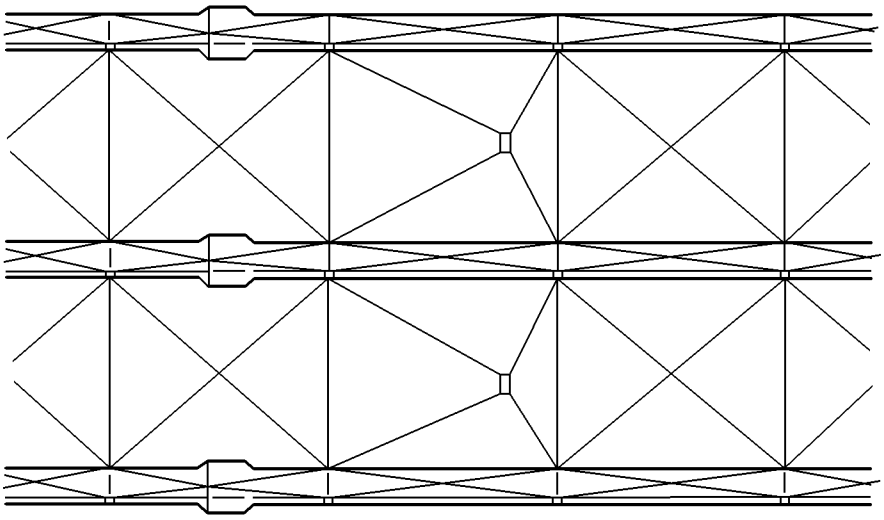
NOTE : Position insulation blanket so that identification is visible.

(1)Make certain that insulation blanket attachment supports are not damaged.
(2)Position insulation blanket.
(3)Cross lace insulation blanket retaining thread.

E. Close-Up
(1)Install insulation or junction panel.
(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.



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Heat and Sound Insulation - Cargo Compartments
Figure 401

## HEAT AND SOUND INSULATION - INSPECTION/CHECK

1. Reason for the Job

Visual inspection of insulation blanket or insulation and junction panel.

2. Procedure

A. Inspection/Check
(1)Make sure that the insulation blankets are clean, not torn and are not soaked with liquid.
(2)Check that "Velcro" tape on attach fittings still adheres correctly.
(3)Make sure that attachment studs are not broken.
(4)Check that nylon threads support insulation blankets correctly.
(5)Make certain that insulation and junction panels are not broken and are correctly attached.

B. Repair
R Repair of insulation blanket is covered in 25-00-00, P. Block 801).

# SEMI-AUTOMATIC CARGO LOADING SYSTEM - DESCRIPTION AND OPERATION

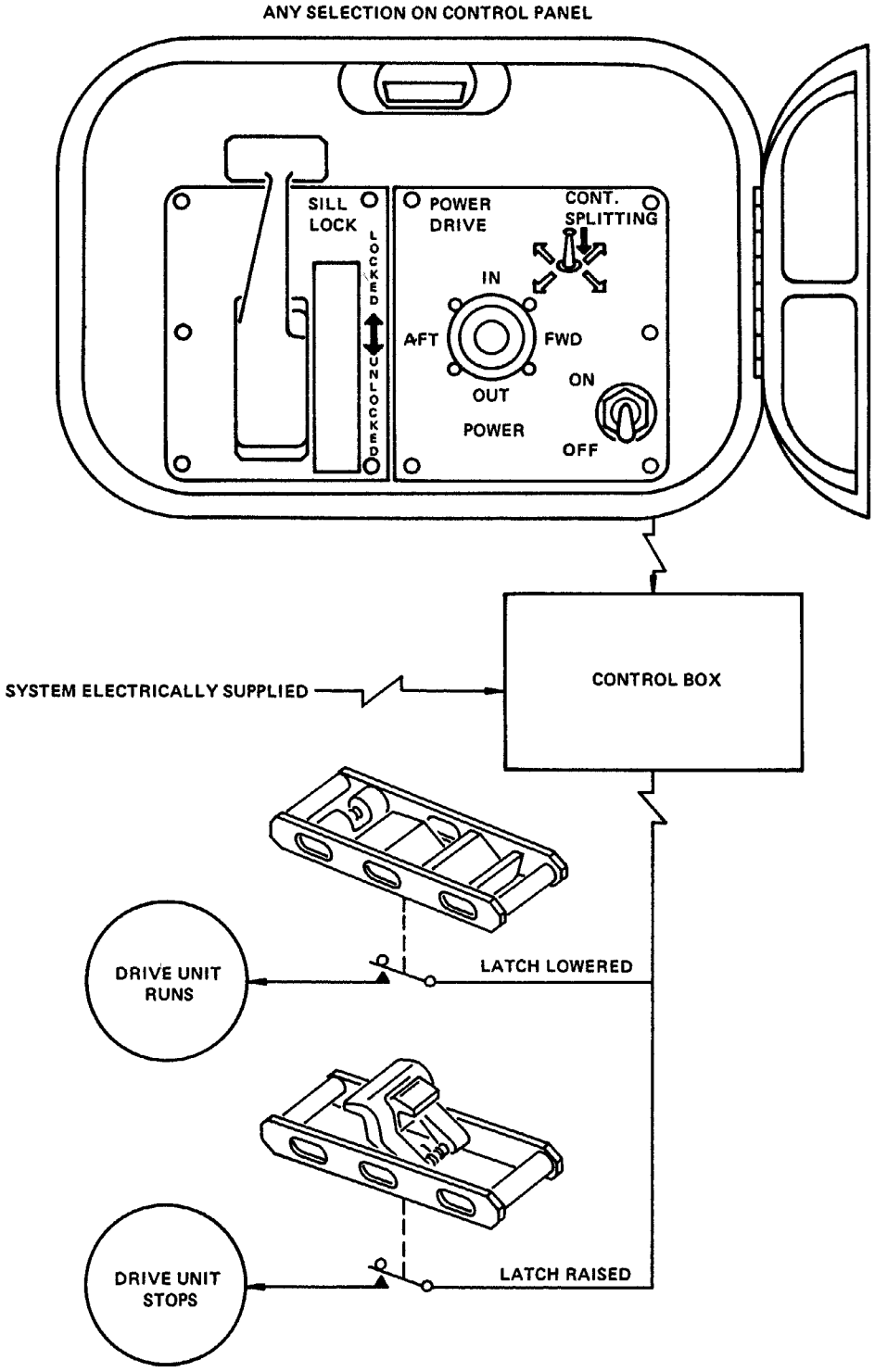
## 1. General

(Ref. Fig. 001)

The FWD and AFT cargo compartments are equipped with similar, independent semi-automatic cargo loading systems which are designed to handle pallets and containers (unit load devices). The cargo loading systems are controlled from separate control panels installed near the cargo compartment doors. Each cargo loading system can be operated by one man. In the event of a power failure or a malfunction, manual loading/unloading of the unit load devices (ULDs) is possible. Movement of ULDs to and from the required loading position is controlled from a joystick mounted on the control panel. Electrical impulses are fed from the control panel via a control box to the appropriate power drive units which, in turn, convey the ULD in the required direction. When a ULD is located in the required loading position, it is secured in place by manually operated latches. Raising of the latching element actuates a limit switch to electrically isolate the associated power drive unit located below the ULD. Movement of the joystick to the center-neutral position will also stop the power drive unit.
The cargo loading system components can be classified into three groups:

- Conveyance components
- Guidance and latching components
- Control components

The conveyance components comprise ball mats, ball strips, roller tracks and power drive units. Ball mats and ball strips are fitted in the door area to permit movement of ULDs in both lateral and longitudinal directions. The roller tracks provide movement in the longitudinal direction only. In the FWD cargo compartment six rows of roller tracks are fitted aft of the ball mats, in the AFT cargo compartment the roller tracks are fitted forward of the ball mats.
Transfer of the ULDs to and from their loading positions is by electrically controlled power drive units. Pallets are conveyed singly and containers singly or in pairs. Control of the power drive units is accomplished through the control components. During transfer of ULDs, a maximum of four power drive units operate under load at any one time. All power drive units are interchangeable both within a cargo compartment and between FWD and AFT compartments.
Mechanical guides are fitted in the ball mat area and in the cargo compartment to ensure correct alignment of ULDs during loading and unloading. Manually operated latches secure the ULDs in position during transportation. The latching is arranged to accommodate a mixed load of pallets and containers.
The control components comprise a control panel, control box, circuit breaker panel and limit switches, which control the power drive units of the cargo loading system.

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Control System - Schematic
Figure 001

2. Component Location

A. FWD Compartment
(Ref. Fig. 002)
(Ref. Fig. 003)
(Ref. Fig. 004)

R **ON A/C 001-100,

R Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 005)

R **ON A/C 001-100,

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 22MY1 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 22MY2 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY1 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY3 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY5 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY7 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY2 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY4 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY6 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY8 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 9631 | BALL UNITS | | 131 | 811 | 25-52-23 |
| 9631 | BALL UNITS | | 132 | 811 | 25-52-23 |
| 9638 | ROLLER ASSYS | | 131 | 811 | 25-52-24 |
| 9638 | ROLLER ASSYS | | 132 | 811 | 25-52-24 |
| | GUIDE, Y-FIXED | | 131 | 811 | 25-52-46 |
| | | | 132 | | |
| 9644 | GUIDE, CONTAINER RETRACTABLE | | 131 | 811 | 25-52-59 |
| 9644 | GUIDE, CONTAINER RETRACTABLE | | 132 | 811 | 25-52-59 |
| | GUIDE, XY | | 132 | 811 | 25-52-48 |
| | GUIDE, Y-RETRACTABLE | | 133 | 811 | 25-52-49 |
| | GUIDE, SIDE-CONTINUOUS | | 131 | 811 | 25-52-44 |
| | GUIDE, SIDE-CONTINUOUS | | 132 | 811 | 25-52-44 |
| 922VU1 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 922VU2 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 924VU1 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 924VU2 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| | LATCH, YZ-FIXED | | 131 | 811 | 25-52-44 |
| | LATCH, YZ-FIXED | | 132 | 811 | 25-52-44 |
| | LATCH, CONTAINER-FIXED | | 131 | 811 | 25-52-53 |
| | LATCH, CONTAINER-FIXED | | 132 | 811 | 25-52-53 |
| | LATCH, YZ-OVERRIDABLE | | 133 | 811 | 25-52-57 |
| 9633 | LATCH, 42-CONTAINER | | 131 | 811 | 25-52-34 |

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 9633 | LATCH, 42-CONTAINER | | 132 | 811 | 25-52-34 |
| 9634 | LATCH, 47-CONTAINER | | 131 | 811 | 25-52-38 |
| 9634 | LATCH, 47-CONTAINER | | 132 | 811 | 25-52-38 |
| 9635 | LATCH 19/19-PALLET | | 131 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 131 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 132 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 132 | 811 | 25-52-36 |
| 9637 | LATCH 19-PALLET | | 131 | 811 | 25-52-35 |
| 9637 | LATCH 19-PALLET | | 132 | 811 | 25-52-35 |
| 920VU1 | CONTROL PANEL | | 122 | 122DR | 25-52-71 |
| 9640 | JOYSTICK | 920VU1 | 122 | 122DR | |
| 8MY | POWER ON/OFF SWITCH | 920VU1 | 122 | 122DR | |
| 7MY | PANEL LIGHT | 920VU1 | 122 | 122DR | |
| 9632 | CONTROL BOX | | 132 | 811 | 25-52-69 |
| 921VU1 | CIRCUIT BREAKER PANEL | | 132 | 811 | |
| 11MY | SWITCH, LIMIT | | | 811 | |
| thru | | | | | |
| 19MY | | | | | |
| 21MY | SWITCH, LIMIT | | | 811 | |

R **ON A/C 001-100,

R Post SB 25-2079 For A/C 001-100,

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 22MY1 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 22MY2 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY1 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY3 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY5 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY7 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY2 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY4 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY6 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY8 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 9631 | BALL UNITS | | 131 | 811 | 25-52-23 |
| 9631 | BALL UNITS | | 132 | 811 | 25-52-23 |
| 9638 | ROLLER ASSYS | | 131 | 811 | 25-52-24 |
| 9638 | ROLLER ASSYS | | 132 | 811 | 25-52-24 |
| | GUIDE, Y-FIXED | | 131 | 811 | 25-52-46 |
| | | | 132 | | |
| 9644 | GUIDE, CONTAINER RETRACTABLE | | 131 | 811 | 25-52-59 |
| 9644 | GUIDE, CONTAINER RETRACTABLE | | 132 | 811 | 25-52-59 |
| | GUIDE, XY | | 132 | 811 | 25-52-48 |

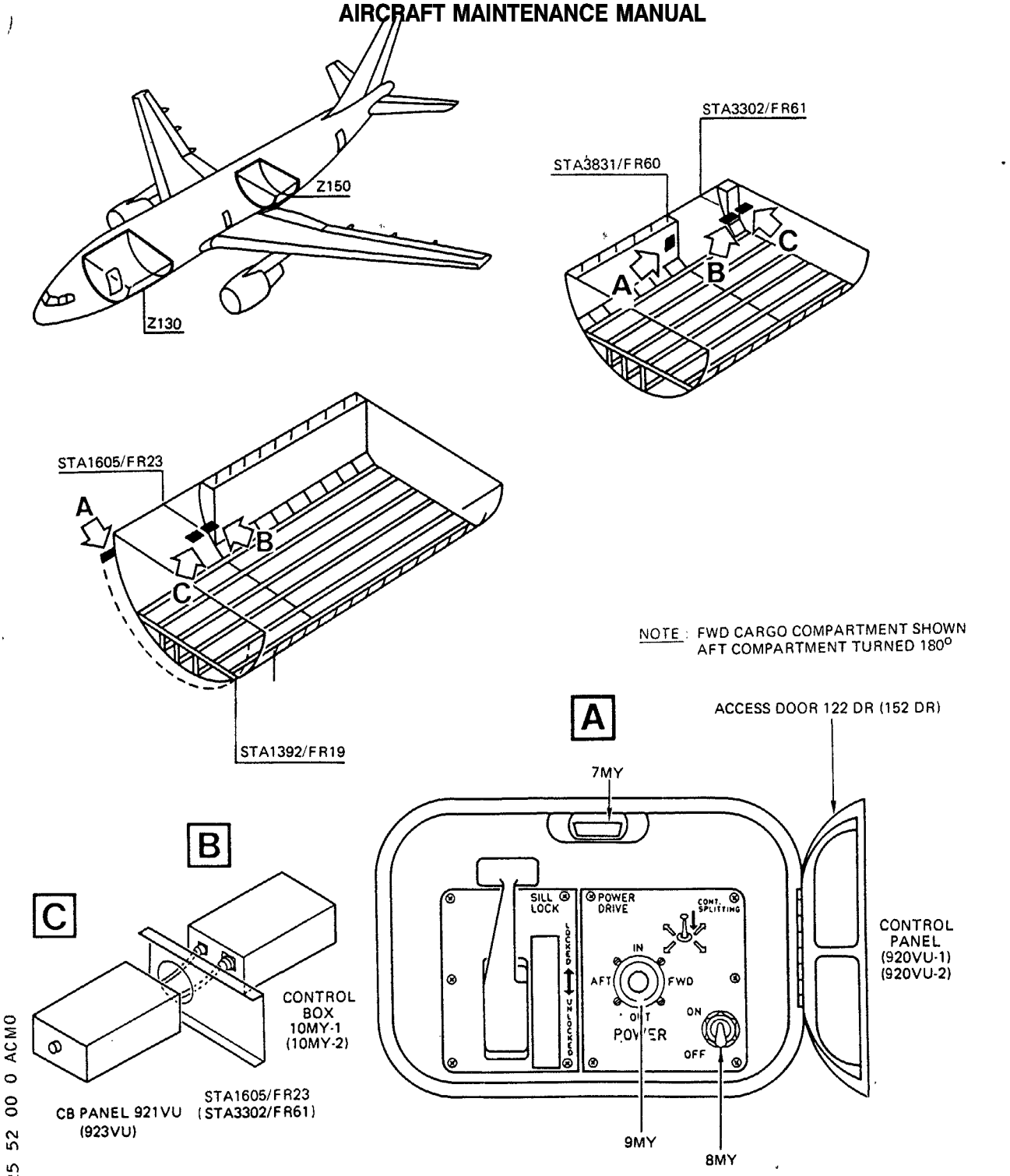
| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| | GUIDE, Y-RETRACTABLE | | 133 | 811 | 25-52-49 |
| | GUIDE, SIDE-CONTINUOUS | | 131 | 811 | 25-52-44 |
| | GUIDE, SIDE-CONTINUOUS | | 132 | 811 | 25-52-44 |
| 922VU1 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 922VU2 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 924VU1 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 924VU2 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| | LATCH, YZ-FIXED | | 131 | 811 | 25-52-44 |
| | LATCH, YZ-FIXED | | 132 | 811 | 25-52-44 |
| | LATCH, CONTAINER-FIXED | | 131 | 811 | 25-52-53 |
| | LATCH, CONTAINER-FIXED | | 132 | 811 | 25-52-53 |
| | LATCH, YZ-OVERRIDABLE | | 133 | 811 | 25-52-57 |
| 9633 | LATCH, 42-CONTAINER | | 131 | 811 | 25-52-34 |
| 9633 | LATCH, 42-CONTAINER | | 132 | 811 | 25-52-34 |
| 9634 | LATCH, 47-CONTAINER | | 131 | 811 | 25-52-38 |
| 9634 | LATCH, 47-CONTAINER | | 132 | 811 | 25-52-38 |
| 9635 | LATCH 19/19-PALLET | | 131 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 131 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 132 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 132 | 811 | 25-52-36 |
| 9637 | LATCH 19-PALLET | | 131 | 811 | 25-52-35 |
| 9637 | LATCH 19-PALLET | | 132 | 811 | 25-52-35 |
| 920VU1 | CONTROL PANEL | | 122 | 122DR | 25-52-71 |
| 9640 | JOYSTICK | 920VU1 | 122 | 122DR | |
| 8MY | POWER ON/OFF SWITCH | 920VU1 | 122 | 122DR | |
| 7MY | PANEL LIGHT | 920VU1 | 122 | 122DR | |
| 9632 | CONTROL BOX | | 132 | 811 | 25-52-69 |
| 921VU1 | CIRCUIT BREAKER PANEL | | 132 | 811 | |
| 11MY | SWITCH, LIMIT | | | 811 | |
| thru | | | | | |
| 19MY | | | | | |
| 21MY | SWITCH, LIMIT | | | 811 | |
| 8881MY | INTERLOCK SWITCH | | 130 | 811 | 25-52-28 |
| 8882MY | INTERLOCK SWITCH | | 130 | 811 | 25-52-28 |

R **ON A/C 001-100,

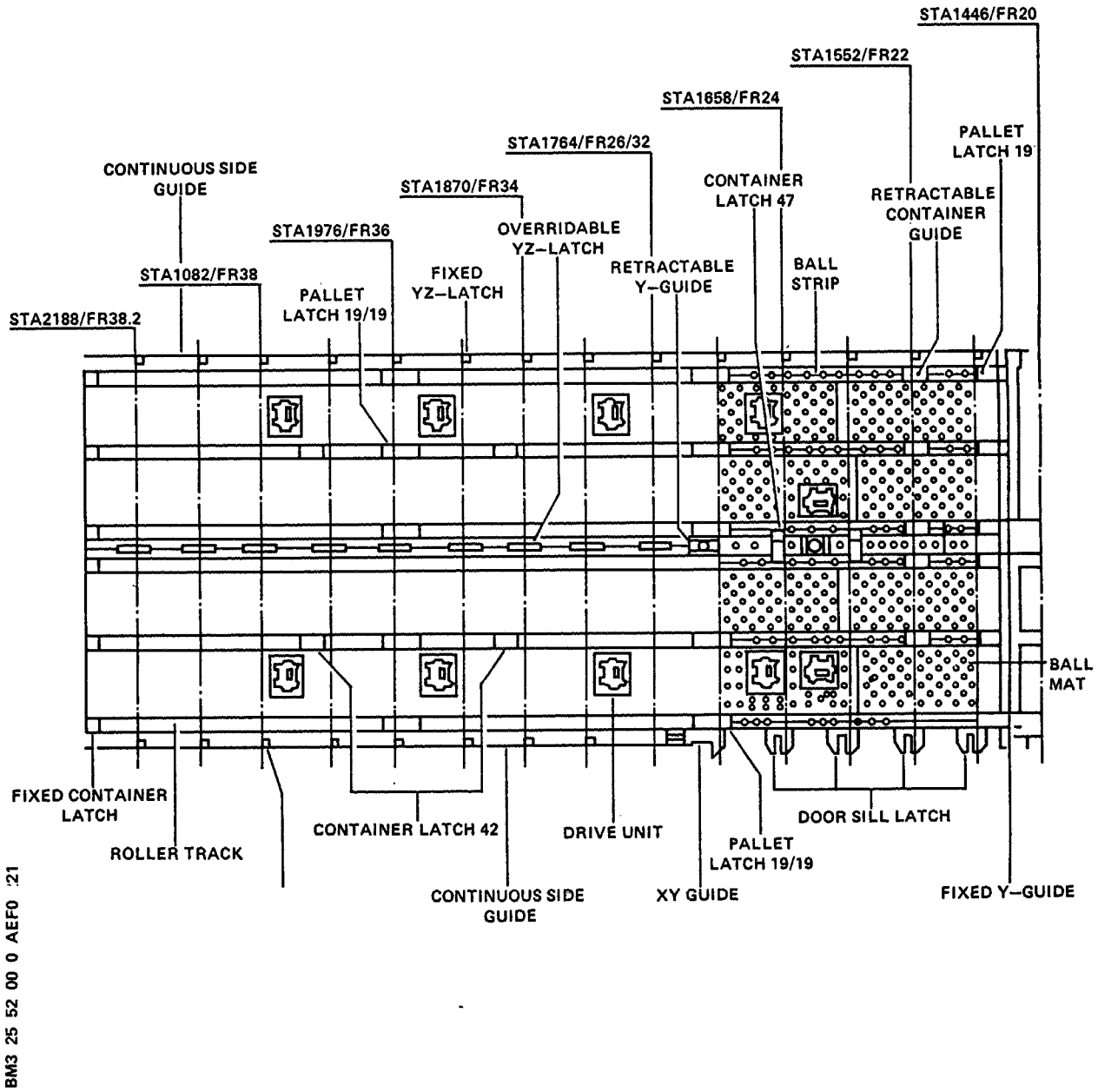
B. AFT Compartment
(Ref. Fig. 002)
(Ref. Fig. 006)

R **ON A/C 001-100,

R Post SB 25-2079 For A/C 001-100,




Component Location - Cargo Compartments
Figure 002



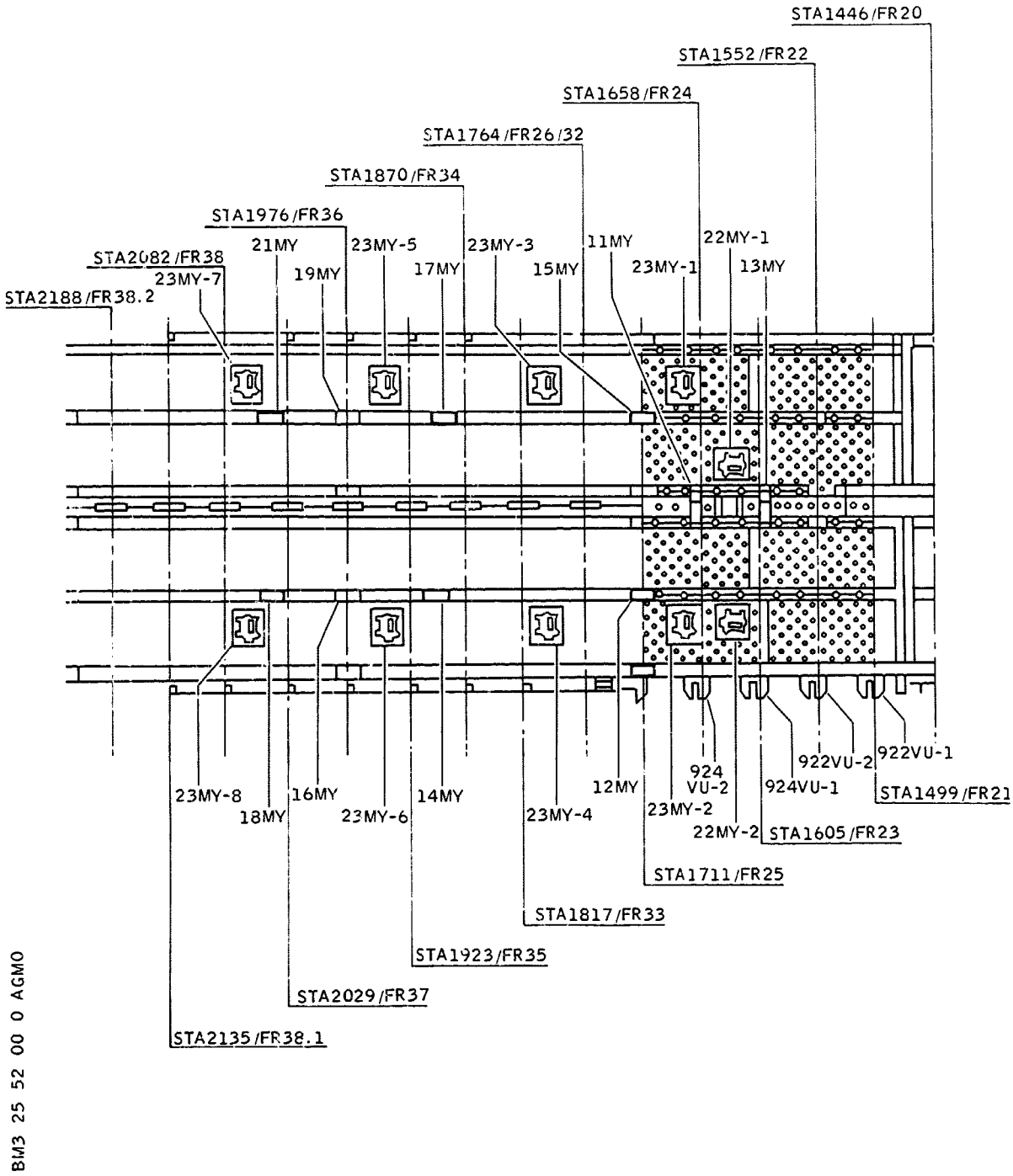

Component Location - FWD Compartment
Mechanical Components
Figure 003

EFFECTIVITY: 001-100,

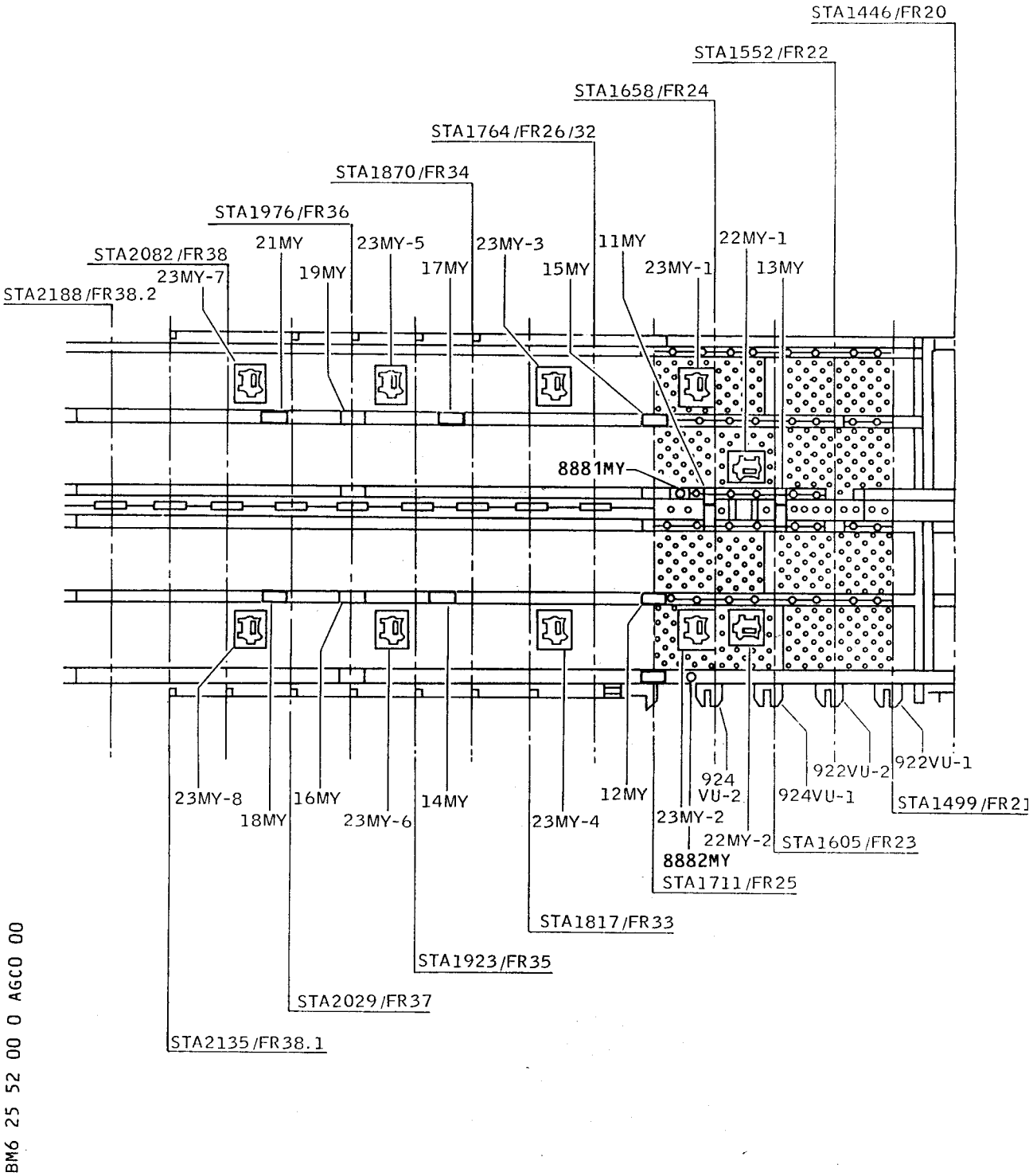
PIA



Printed in France




Component Location - FWD Compartment
Electrical Components
Figure 004

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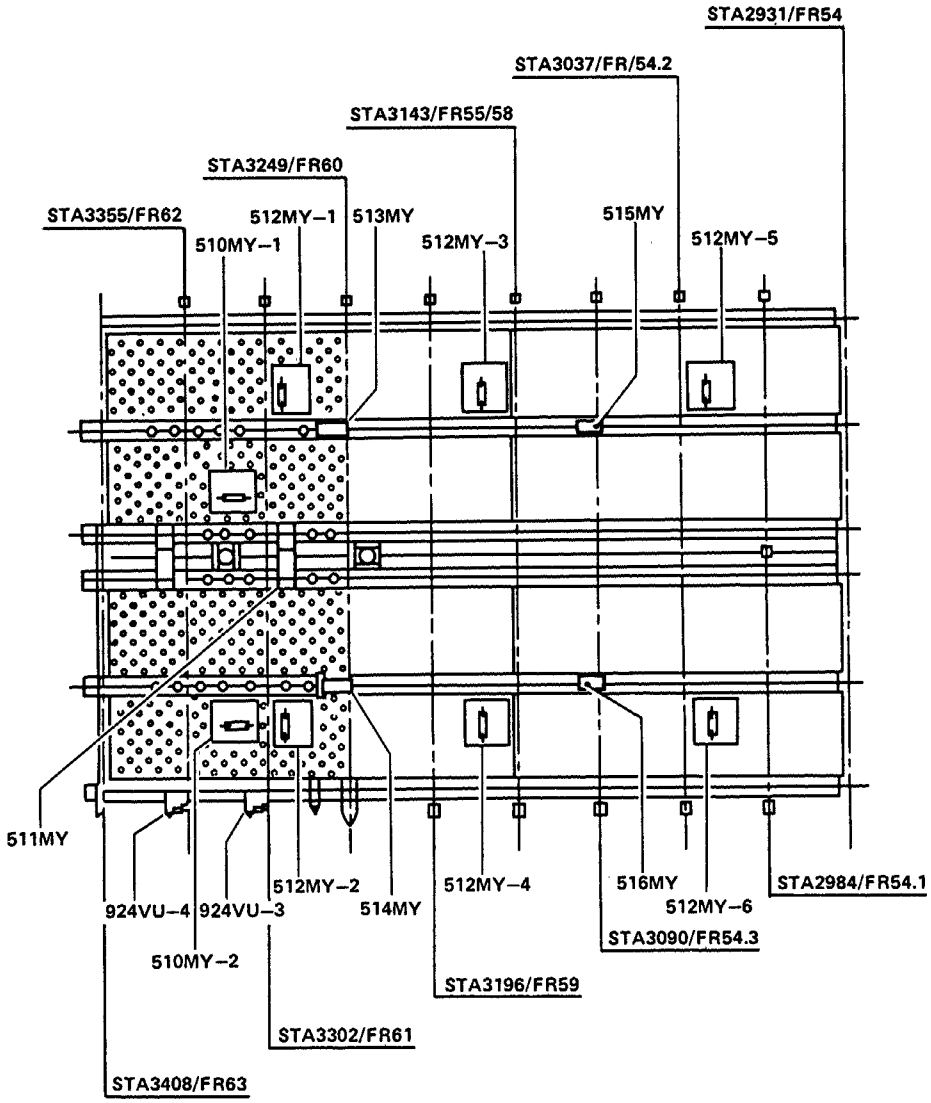
Component Location - FWD Compartment
Electrical Components
Figure 005

EFFECTIVITY: 001-100,

PIA



Printed in France

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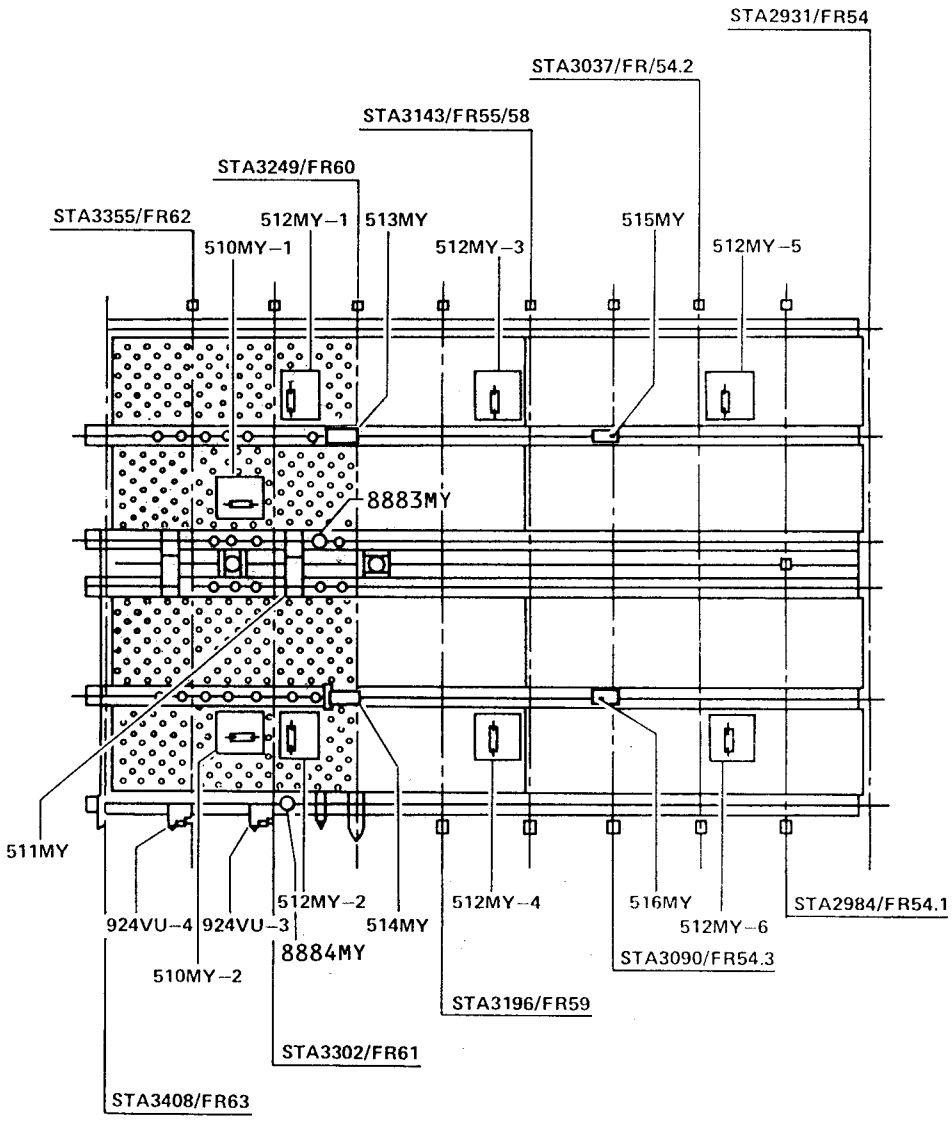
Component Location - AFT Compartment
Electrical Components
Figure 006

(Ref. Fig. 007)

R **ON A/C 001-100,

(Ref. Fig. 008)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 510MY1 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY1 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY3 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY5 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 510MY2 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 512MY2 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 512MY4 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 512MY6 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 9649 | BALL UNITS | | 151 | 812 | 25-52-23 |
| 9649 | BALL UNITS | | 152 | 812 | 25-52-23 |
| 9653 | ROLLER ASSYS | | 151 | 812 | 25-52-24 |
| 9653 | ROLLER ASSYS | | 152 | 812 | 25-52-24 |
| | GUIDE, Y-FIXED | | 151 | 812 | 25-52-46 |
| | GUIDE, XY | | 151 | 812 | 25-52-48 |
| 924VU3 | LATCH-DOOR SILL | | 152 | 812 | 25-52-41 |
| 924VU4 | LATCH-DOOR SILL | | 152 | 812 | 25-52-41 |
| | ROLLER, DOOR SILL | | 152 | 812 | |
| | GUIDE, Y-RETRACTABLE | | 151/ 152 | 812 | 25-52-49 |
| | LATCH, YZ-FIXED | | 151 | 812 | 25-52-44 |
| | LATCH, YZ-FIXED | | 152 | 812 | 25-52-44 |
| | GUIDE, X-CONTINUOUS | | 151 | 812 | 25-52-44 |
| 9651 | LATCH, 42-CONTAINER | | 151 | 812 | 25-52-34 |
| 9651 | LATCH, 42-CONTAINER | | 152 | 812 | 25-52-34 |
| 9652 | LATCH, 47-CONTAINER | | 151/ 152 | 812 | 25-52-38 |
| | LATCH, Y-RETRACTABLE | | 151/ 152 | 812 | 25-52-49 |
| | LATCH, CONTAINER FIXED | | 151 | 812 | 25-52-53 |
| | LATCH, CONTAINER FIXED | | 152 | 812 | 25-52-53 |
| 920VU2 | CONTROL PANEL | | 152 | 152DR | |
| 9655 | JOYSTICK | 920VU2 | 152 | 152DR | 25-51-71 |
| 8MY | POWER ON/OFF SWITCH | 920VU | 152 | 152DR | |
| 507MY | PANEL LIGHT | 920VU | 152 | 152DR | |
| 9650 | CONTROL BOX | | 152 | 812 | 25-52-69 |
| 923VU | CIRCUIT BREAKER PANEL | | 152 | 812 | |
| 11MY | SWITCH, LIMIT | | | 812 | |
| 513MY thru 518MY | SWITCH, LIMIT | | | 812 | |
| 521MY | SWITCH, LIMIT | | | 812 | |
| 522MY | SWITCH, LIMIT | | | 812 | |

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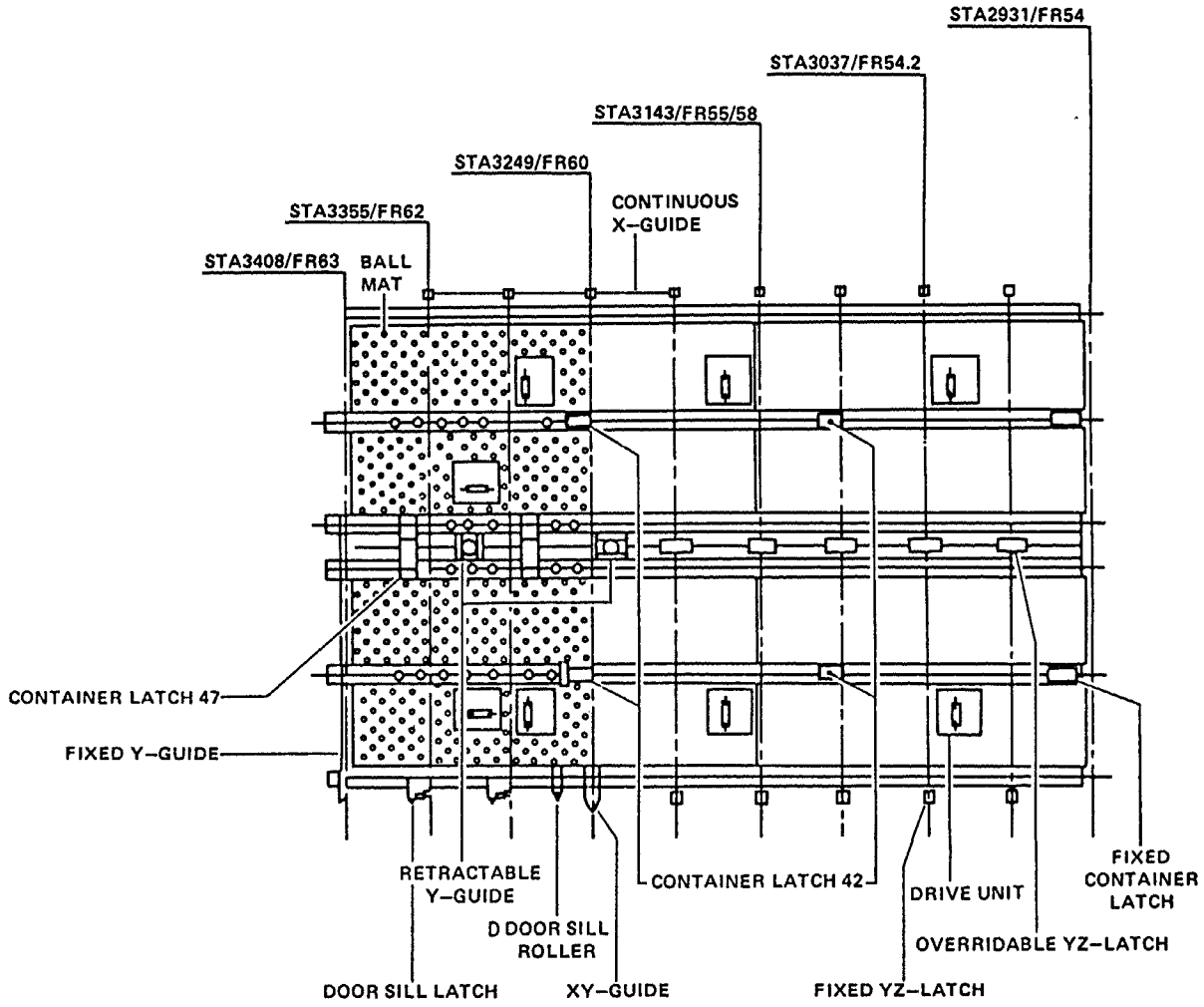
Component Location - AFT Compartment
Electrical Components
Figure 007

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Component Location - AFT Compartment
Mechanical Components
Figure 008

R **ON A/C 001-100,

R Post SB 25-2079 For A/C 001-100,

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 510MY1 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY1 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY3 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY5 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 510MY2 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 512MY2 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 512MY4 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 512MY6 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 9649 | BALL UNITS | | 151 | 812 | 25-52-23 |
| 9649 | BALL UNITS | | 152 | 812 | 25-52-23 |
| 9653 | ROLLER ASSYS | | 151 | 812 | 25-52-24 |
| 9653 | ROLLER ASSYS | | 152 | 812 | 25-52-24 |
| | GUIDE, Y-FIXED | | 151 | 812 | 25-52-46 |
| | GUIDE, XY | | 151 | 812 | 25-52-48 |
| 924VU3 | LATCH-DOOR SILL | | 152 | 812 | 25-52-41 |
| 924VU4 | LATCH-DOOR SILL | | 152 | 812 | 25-52-41 |
| | ROLLER, DOOR SILL | | 152 | 812 | |
| | GUIDE, Y-RETRACTABLE | | 151/152 | 812 | 25-52-49 |
| | LATCH, YZ-FIXED | | 151 | 812 | 25-52-44 |
| | LATCH, YZ-FIXED | | 152 | 812 | 25-52-44 |
| | GUIDE, X-CONTINUOUS | | 151 | 812 | 25-52-44 |
| 9651 | LATCH, 42-CONTAINER | | 151 | 812 | 25-52-34 |
| 9651 | LATCH, 42-CONTAINER | | 152 | 812 | 25-52-34 |
| 9652 | LATCH, 47-CONTAINER | | 151/152 | 812 | 25-52-38 |
| | LATCH, Y-RETRACTABLE | | 151/152 | 812 | 25-52-49 |
| | LATCH, CONTAINER FIXED | | 151 | 812 | 25-52-53 |
| | LATCH, CONTAINER FIXED | | 152 | 812 | 25-52-53 |
| 920VU2 | CONTROL PANEL | | 152 | 152DR | |
| 9655 | JOYSTICK | 920VU2 | 152 | 152DR | 25-51-71 |
| 8MY | POWER ON/OFF SWITCH | 920VU | 152 | 152DR | |
| 507MY | PANEL LIGHT | 920VU | 152 | 152DR | |
| 9650 | CONTROL BOX | | 152 | 812 | 25-52-69 |
| 923VU | CIRCUIT BREAKER PANEL | | 152 | 812 | |
| 11MY | SWITCH, LIMIT | | | 812 | |
| 513MY thru 518MY | SWITCH, LIMIT | | | 812 | |
| 521MY | SWITCH, LIMIT | | | 812 | |
| 522MY | SWITCH, LIMIT | | | 812 | |

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 8883MY | INTERLOCK SWITCH | | 150 | 812 | 25-52-28 |
| 8884MY | INTERLOCK SWITCH | | 150 | 812 | 25-52-28 |

R **ON A/C 001-100,

3. Description

NOTE : The cargo conveyance systems in the FWD and AFT cargo compartments contain similar components and operate in a similar manner. Therefore only the FWD cargo compartment is described. Differences between FWD and AFT cargo compartments are noted where applicable.

A. Cargo Conveyance System

The cargo conveyance system consists of ball mats, ball strips, roller assemblies and electrically operated retractable power drive units.

(1)Ball Mats and Ball Strips

(Ref. Fig. 009)

Ball mats and ball strips are located in the FWD cargo compartment between STA1446/FR20 and STA1711/FR25, in the AFT cargo compartment between STA3249/FR60 and STA3408/FR63. The ball mats/strips extend across the full width of the cargo compartment.

Ball mats and ball strips consist of light alloy sandwich-section plates which house ball unit assemblies. The ball mats are positioned between the roller tracks and are screwed to the lower structure. Ball strips are positioned in the roller tracks and are secured in place with screws.

(a)Ball unit assemblies

Each ball unit consists of a ball mounted in a bearing shell which, in turn, is supported within a housing by a compression spring. The ball and bearing shell are retained in the housing by a top cover, which also acts as a dirt shield.

(2)Roller Tracks

(Ref. Fig. 010)

The roller track channel-sections form the longitudinal part of the cargo compartment floor structure, and are screwed to the compartment crossbeams. Free-running roller assemblies are fitted into the roller tracks to assist the movement of, and to support ULDs.

(a)Roller assemblies

Each roller assembly consists of an aluminium tube section supported by ball races mounted on a spindle. A shaped retaining plate is fitted to one end of the spindle to prevent the spindle rotating with the roller. The opposite end of the spindle is secured with a cotter pin.

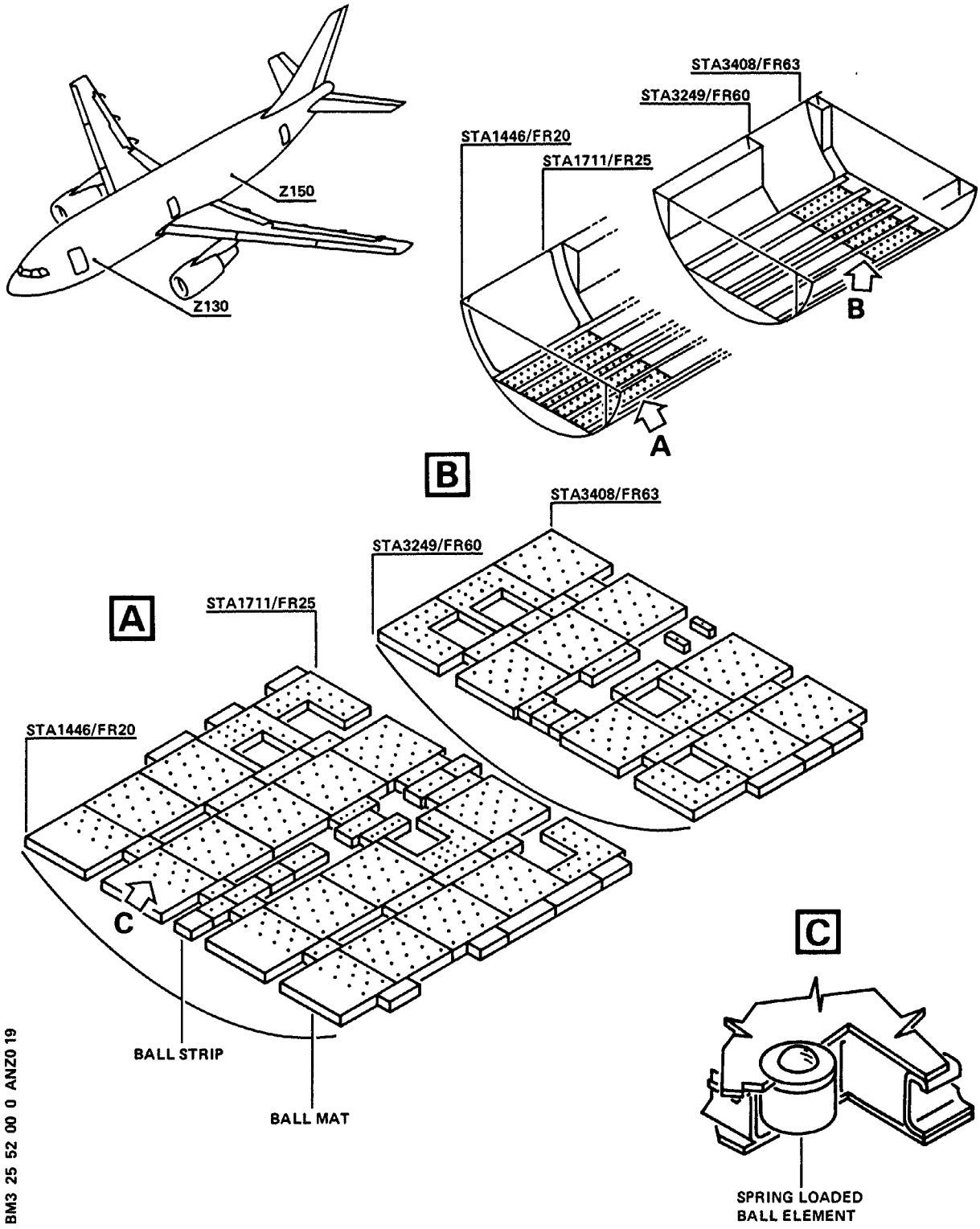
(3)Drive Unit

(Ref. Fig. 011)

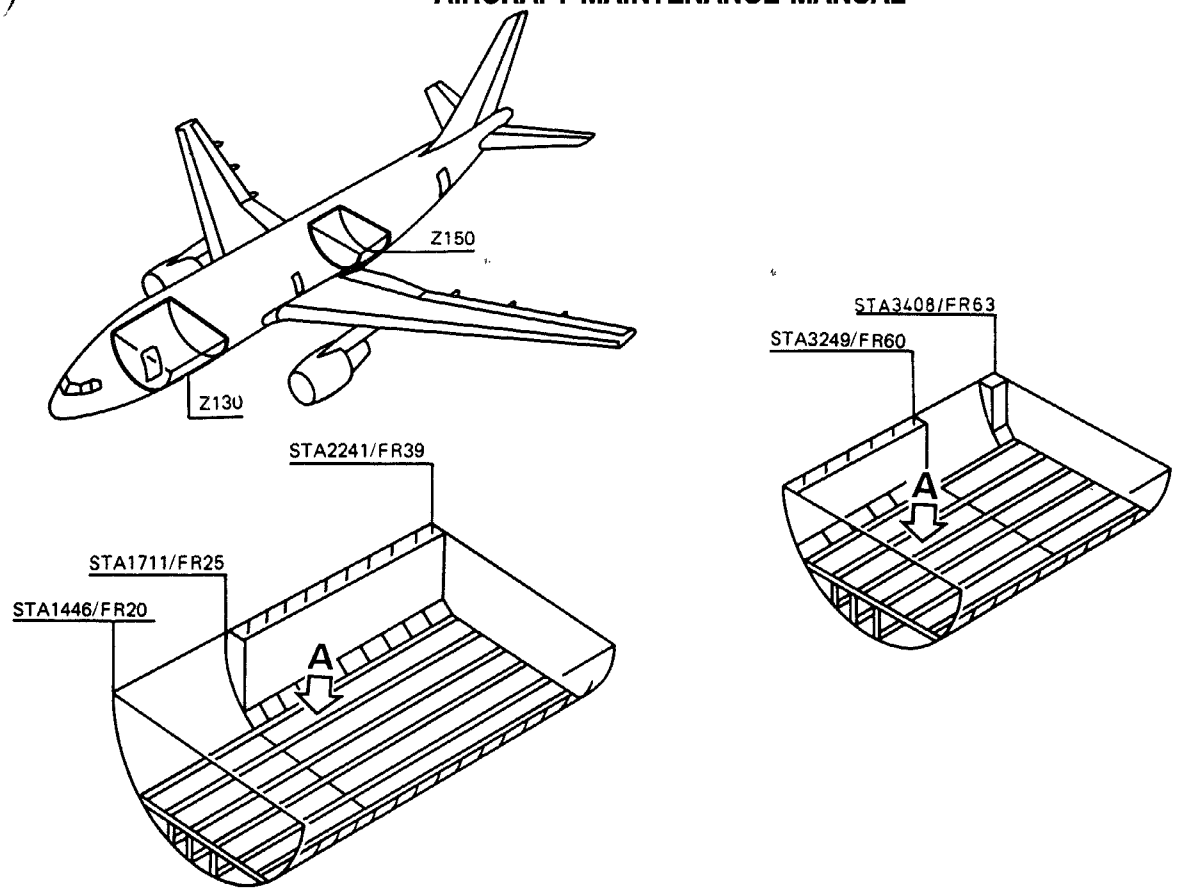
(Ref. Fig. 012)

Power drive units are located in two rows within the FWD cargo compartment at STA1605/FR23, STA1658/FR24, STA1817/FR33, STA1923/FR35 and STA2082/FR38.

In the AFT cargo compartment the power drive units are positioned at STA3037/FR54.2, STA3143/FR55/58, STA3302/FR61, STA3355/FR62, STA3408/FR63 and STA3461/FR64. The power drive units at STA1605/FR23 and STA3355/FR62 operate in the lateral direction, all other power drive units operate in the longitudinal direction.

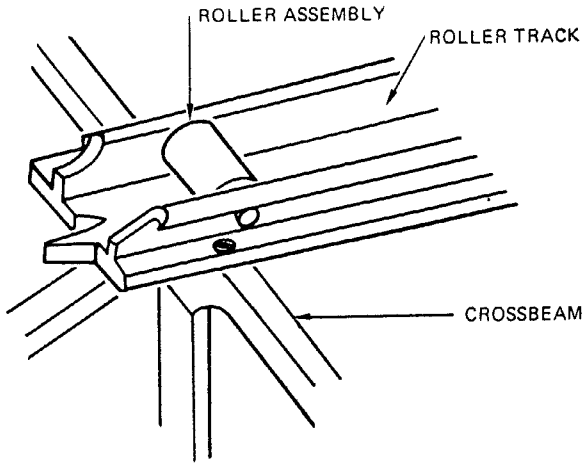



Ball Mats/Ball Strips - Typical Arrangement
Figure 009




A

TYPICAL ARRANGEMENT

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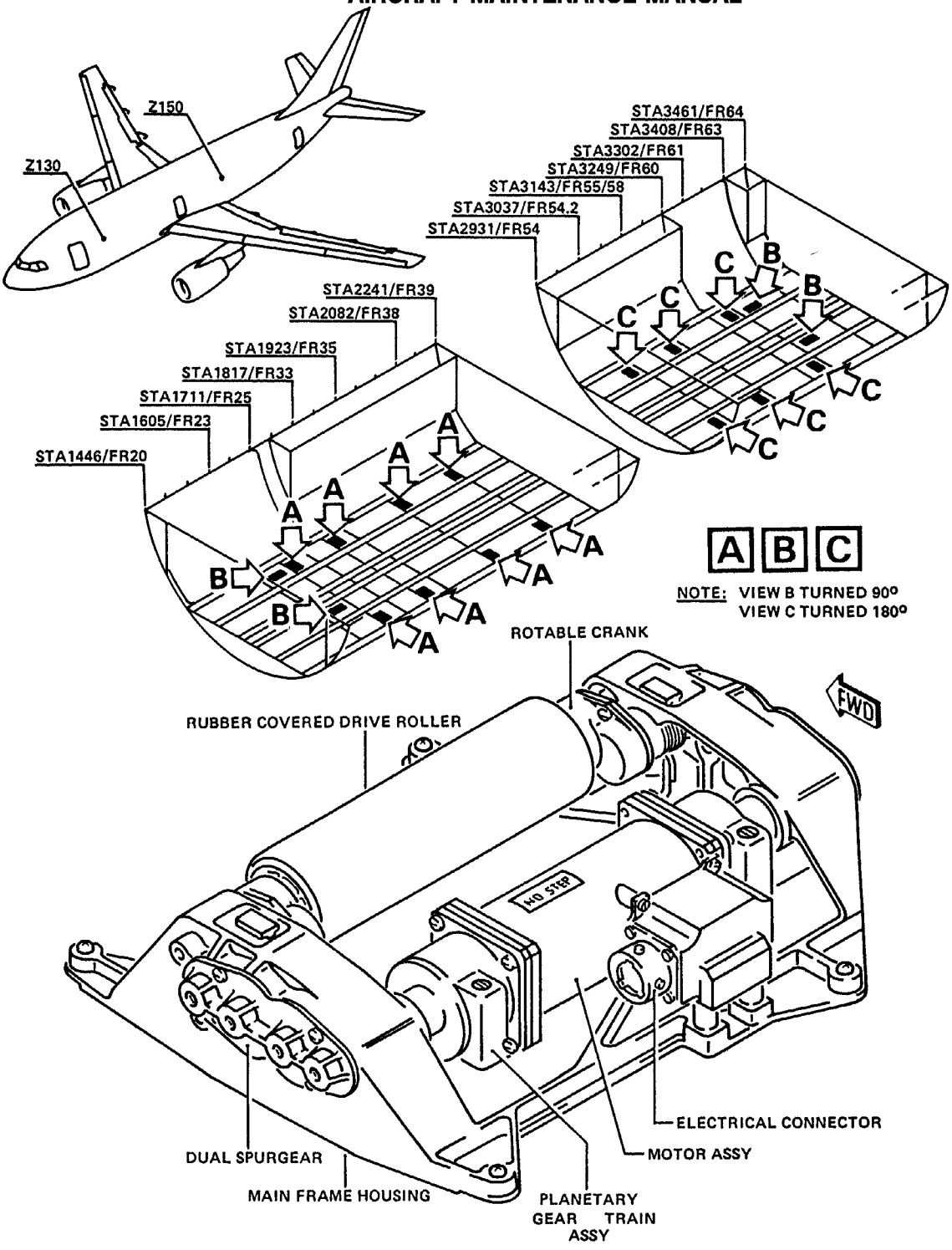
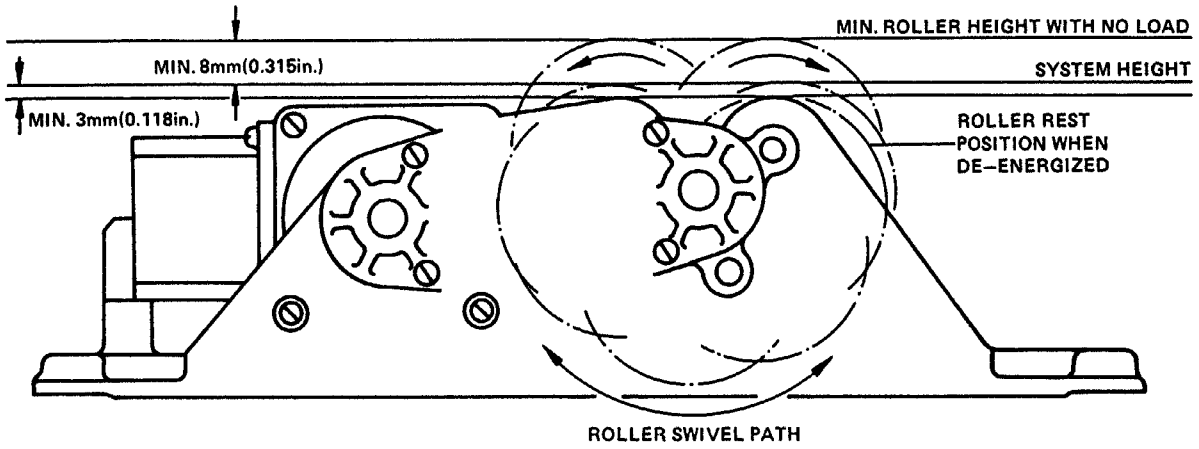
Roller Tracks - Typical Arrangement
Figure 010




BM3 25 52 00 0 ASZ0 -15

Power Drive Unit - General Arrangement
Figure 011

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Drive Roller Movement - Schematic
Figure 012

Each power drive unit consists of a main frame housing which contains a reversible three phase 115/200 V, 400 Hz, AC motor, with a two-stage planetary gear, a dual spurgear drive and rotatable crank is installed on each side. A rubber coated drive roller is mounted between the dual spurgear drives and rotatable cranks. The main frame housing of the power drive unit is secured to a drain pan/frame assembly which in turn is secured to the floor structure between the roller tracks. An angled protective plate is secured to the drain pan to protect the electrical connector against damage.

(a)Operation

When the motor is energized, torque is applied to each end of the drive roller through the gear drives. A friction brake mounted at the last stage of the gear train provides a light drag on the roller. This causes the rotatable crank and the roller to pivot upward into its operating position, and in contact with the base of the ULD, at system height.

The braking torque is such that, initially no effective lifting force is exerted against the ULD base.

The upward movement of the rotatable crank and drive roller is blocked through contact with the ULD base, the contact pressure causing the roller to rotate.

Through this rotation an additional braking torque is applied to the roller, which results in a further upward force or contact pressure being applied against the ULD base. The result is that a conveying force is built up, setting the ULD in motion.

When the motor is de-energized, the contact pressure against the ULD decreases and the rotatable crank and drive roller pivot down to the rest position.

B. Guidance and Latching Components

The guidance and latching components comprise fixed and operable guides which align ULDs during transfer to and from loading positions, and manually operated latches for securing ULDs in their load positons. The guidance and latching components are identified by the direction in which they are effective and/or their function. To simplify the component identifications the following terms are used:

- X indicates effective in the longitudinal direction
- Y indicates effective in the lateral direction
- Z indicates effective in the vertical direction

Latches are additionally identified by the distance, in millimeters, between the locking faces, i.e. container latch 47 indicates that the distance between the locking faces is 47 mm.

(1)Door Sill Latch (Ref. Fig. 013, )

Four door sill latches are fitted in the FWD cargo compartment between STA1499/FR21 and STA1658/FR24. In the AFT cargo compartment two door sill latches are fitted between STA3884/FR61 and STA3937/FR62. The latches are secured to the roller tracks in the door sill area, and serve two functions:

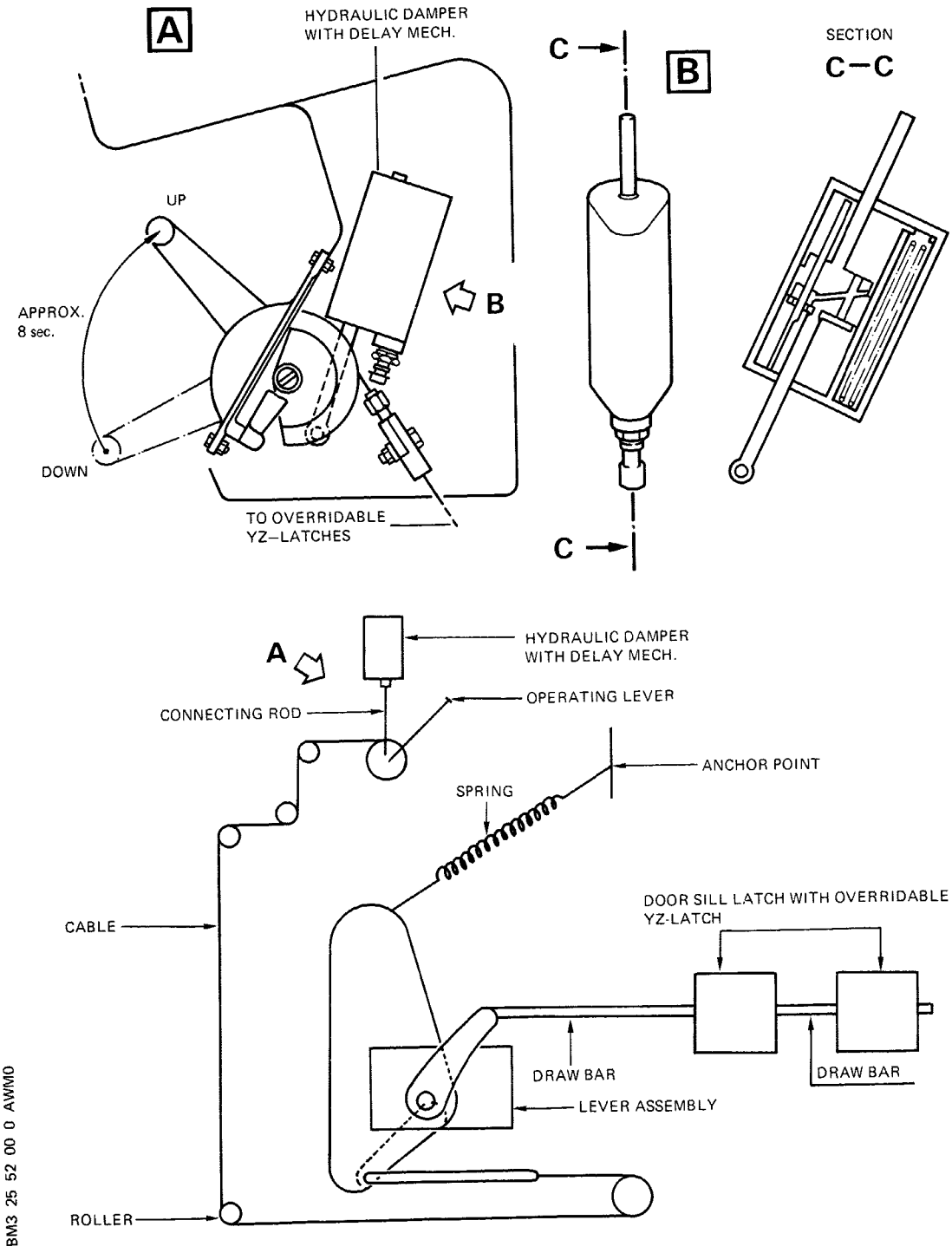
- prevent inadvertent unloading of a ULD
- secure a ULD in position.

NOTE : As all latches are similar, only one latch is described.

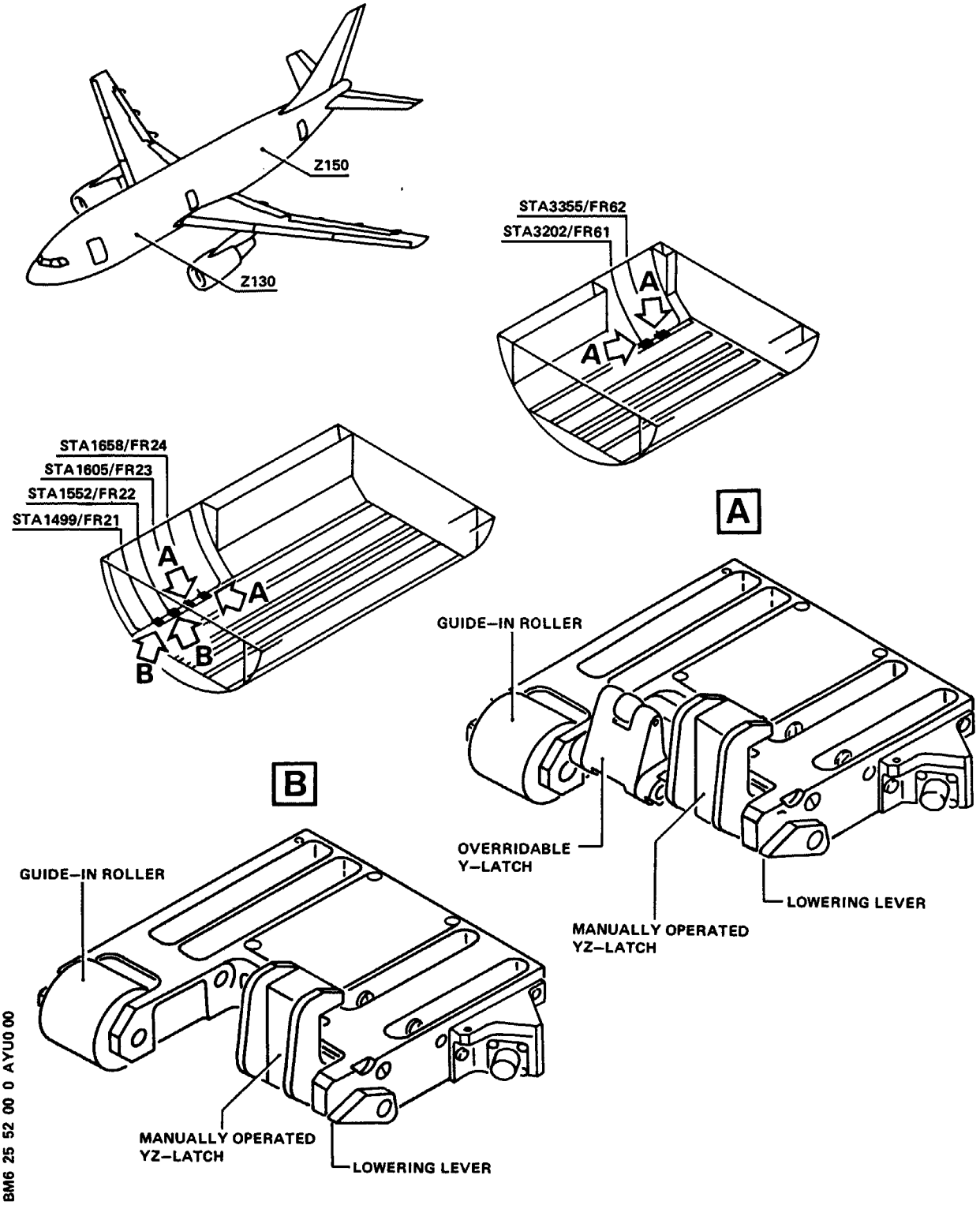
Each door sill latch consists of a housing, a guide-in roller, and a manually operated YZ-latch. The YZ-latch, which provides the ULD locking facility in the door area, is locked in the raised position by a spring-loaded pawl. The YZ-latch is lowered by depressing a release lever, to disengage the pawl, and manually lowering the YZ-latch.
A limit switch engages with the pawl to provide an electrical interlock which prevents the cargo compartment door from closing when the YZ-latch is in the lowered position. This limit switch also electrically isolates the cargo loading system when the YZ-latch is raised. The YZ-latch is raised manually until the pawl engages, to lock the latch in position. The latches at STA1605/FR23, STA1684/FR24, STA3302/FR61 and STA3355/FR62 are additionally fitted with an overridable Y-latch.
The overridable Y-latch is overridable in the load direction only. In the unload direction the Y-latch must be lowered manually by operating a lever mounted on the cargo loading system control panel. With the lever held in the lowered position, the Y-latch remains lowered. When the lever is released, the Y-latch and the lever rise slowly to the locked position over a period of approximately 10 seconds, to allow time for the unloading of one ULD. Should the Y-latch contact the underside of a ULD during the raising period, the raising will stop until the ULD clears the Y-latch, when action recommences.
The Y-latch operating lever (sill lock) in the control panel is connected to a draw bar via a hydraulic delay mechanism, teleflex cable and a spring-tensioned lever assembly. In turn, the draw bar connects the operating linkages of the two Y-latches in tandem. Movement of the Y-latch operating lever is transmitted through the teleflex cable and draw bar to activate the Y-latch operating linkage within the door sill latch.
A guide-in roller is fitted to each door sill latch to prevent damage to the cargo compartment door sill and to the door sill latches during loading and unloading. This roller also compensates for any slight differences in height between the cargo compartment and the loader.
(Ref. Fig. 013)

(Ref. Fig. 014)

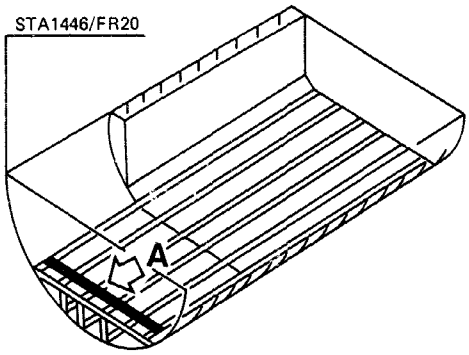
(2)Fixed Y-Guide
(a)FWD Cargo Compartment
(Ref. Fig. 015)
A fixed Y-guide is installed across the ball mat area at STA1446/FR20 to guide pallets in the Y-direction during loading and unloading. The guide, which comprises four interconnected sections, extends across the full width of the cargo compartment. To prevent damage to the cargo compartment door sill during loading and unloading, a guide-in roller is fitted to the right-hand end of the guide. Each section of the guide houses a series of vertically-mounted rollers which contact

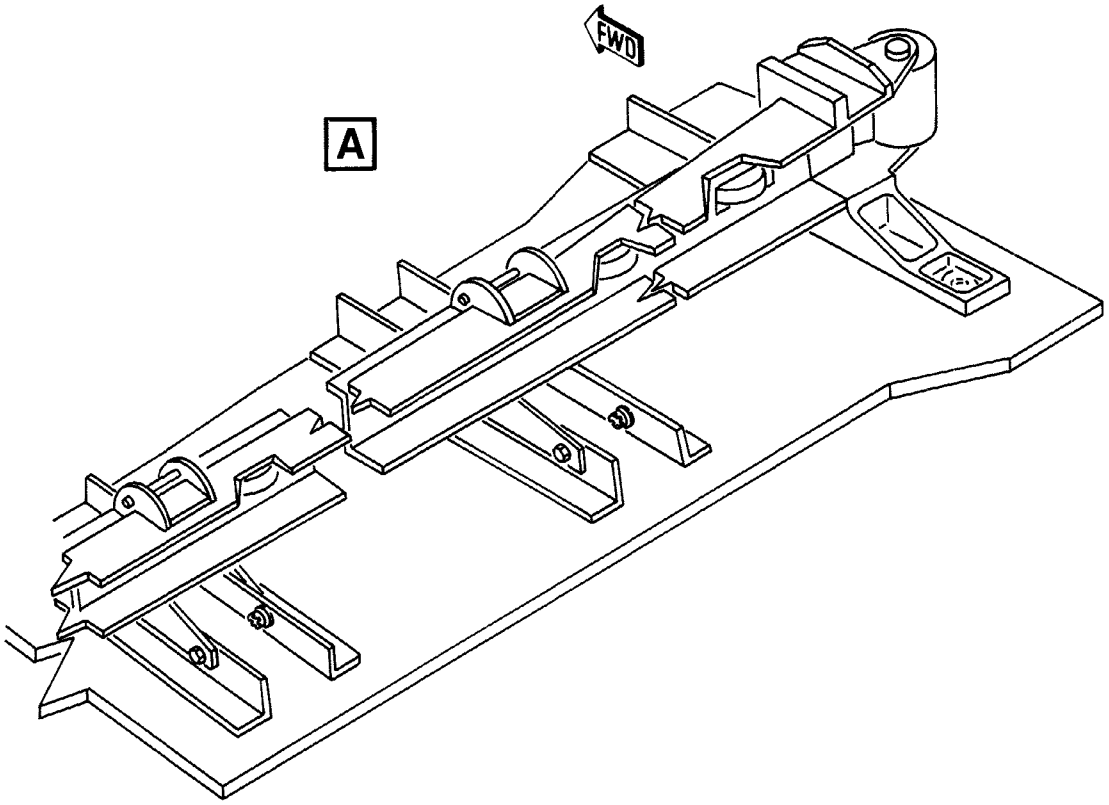



Typical Y-Latch - Control Schematic
Figure 013




Door Sill Latch
Figure 014

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Fixed Y-Guide - FWD Compartment
Figure 015

the side of the pallet to provide the required guidance. The guide sections are joined by fixing clamps which are secured to the roller tracks.

(b)AFT Cargo Compartment

(Ref. Fig. 016)

A fixed Y-guide is installed across the ball mat area at STA3408/FR63 between the first four roller tracks with an additional Y-guide at the fifth roller track to guide containers in the Y-direction during loading and unloading. The fixed Y-guide secures containers in the X-direction. The guide is secured to the roller tracks.

The right-hand end of the guide projects over the door sill, to protect the sill during loading and unloading.

(Ref. Fig. 017)

(3)XY-Guide

(a)FWD Cargo Compartment

An XY-guide is positioned at STA1711/FR25 to guide pallets and containers in the X- and Y-directions. The guide has three vertically mounted rollers, two of which provide guidance in the X-direction; the third roller projects beyond the door frame to provide guidance in both X- and Y-directions and protects the door sill frame.

(b)AFT Cargo Compartment

In the AFT cargo compartment the XY-guide is located at STA3249/FR60 to align containers in the Y-direction and protect the cargo compartment door frame. The guide is secured to the roller track.

(4)Retractable Container Guide

(4)Retractable Container Guide

(Ref. Fig. 018)

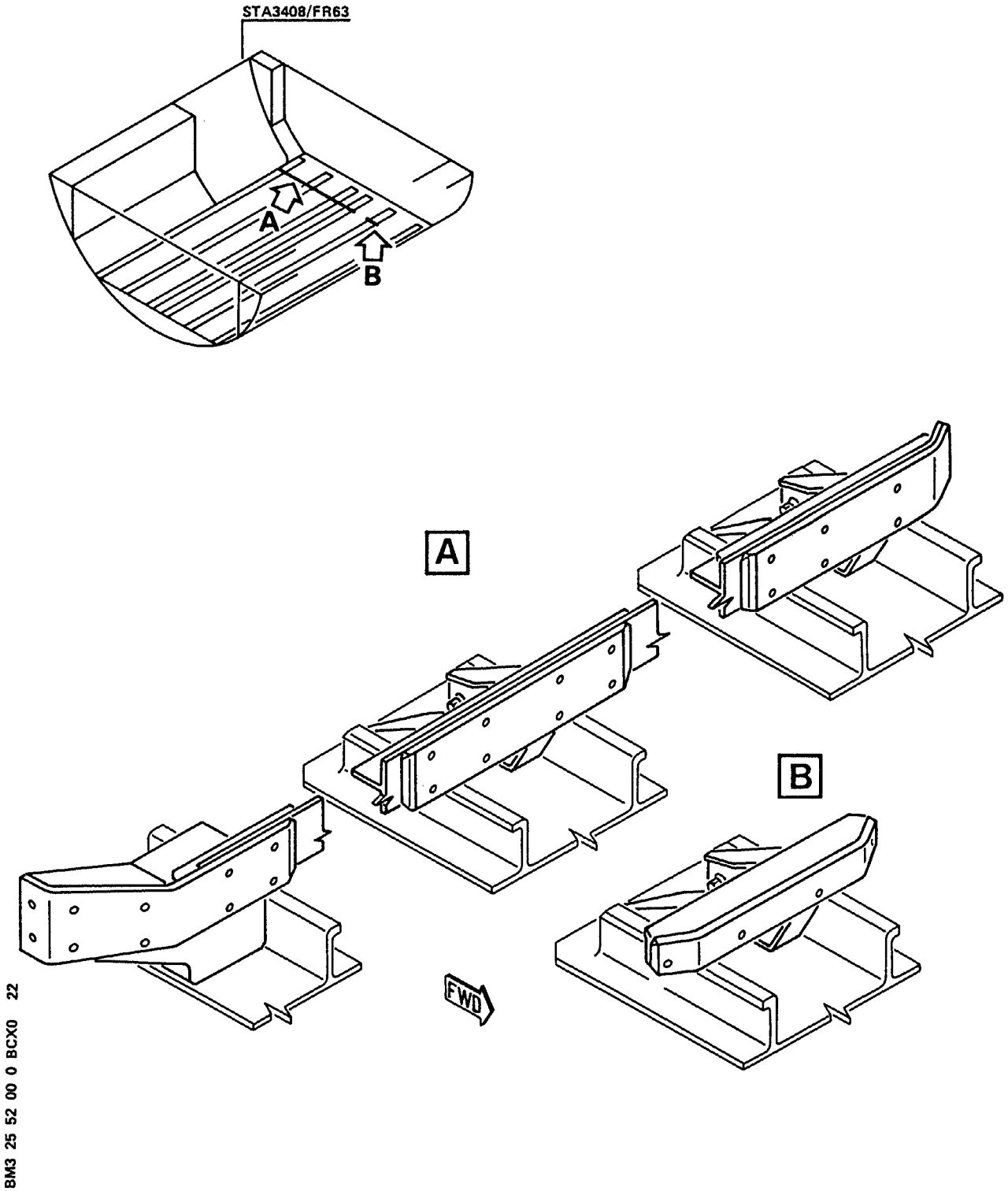
Five manually-operated, retractable guides are installed across the ball mat area of the FWD cargo compartment at STA1552/FR22. The guides provide guidance for containers in the Y-direction during loading and unloading and restrain containers in the X-direction during transport. Before loading and unloading pallets, the guides must be lowered. The operating lever for raising and lowering the guide is positioned forward of the guiding element and is annotated 'Press to Unlock'.

(5)Retractable Y-Guide

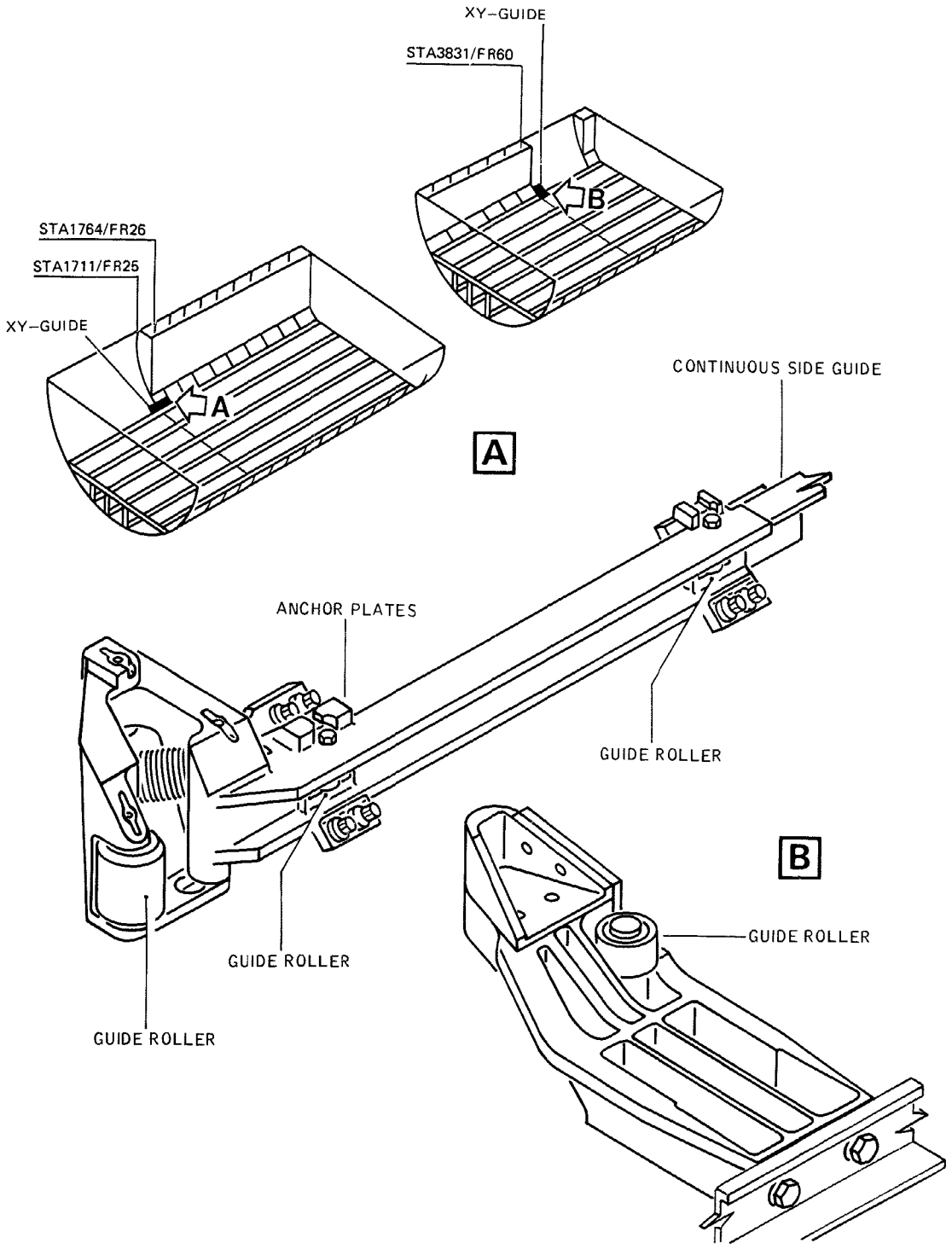
(Ref. Fig. 019)

Retractable Y-guides are installed in both FWD and AFT cargo compartments to align half width containers. In both cargo compartments the guides are installed on the aircraft centerline. In the FWD cargo compartment one guide is installed in the ball mat area between STA1605/FR23 and STA1711/FR25; the second guide is located aft of the ball mats. In the AFT compartment one guide is installed in the ball mat area and the second fwd of the ball mats. In each compartment the guide in the ball mat area is overridable in the load direction, whereas the second guide is overridable in the unload direction.

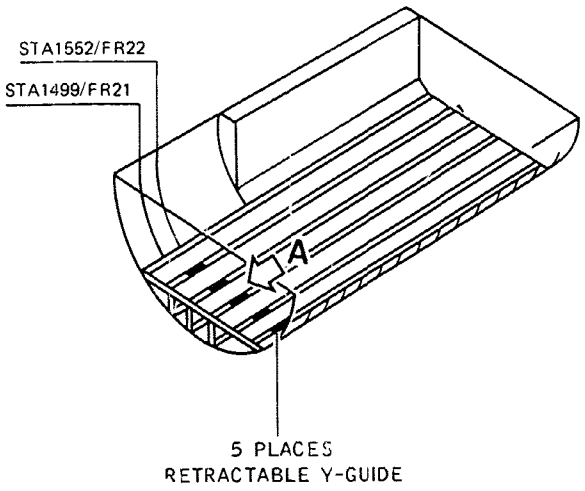
When loading half width containers in pairs, the lead container engages and overrides a guide roller which retracts against spring pressure. Depression of the joystick on the control panel causes the containers to separate, which allows the guide roller to rise against spring pressure. The guide roller aligns half width containers in the X-direction.

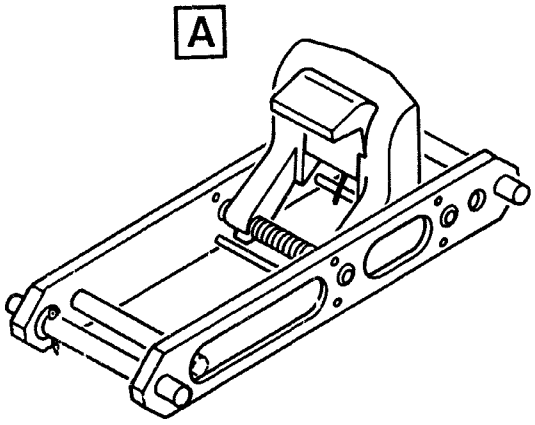



Fixed Y-Guide - AFT Compartment
Figure 016




XY-Guide
Figure 017

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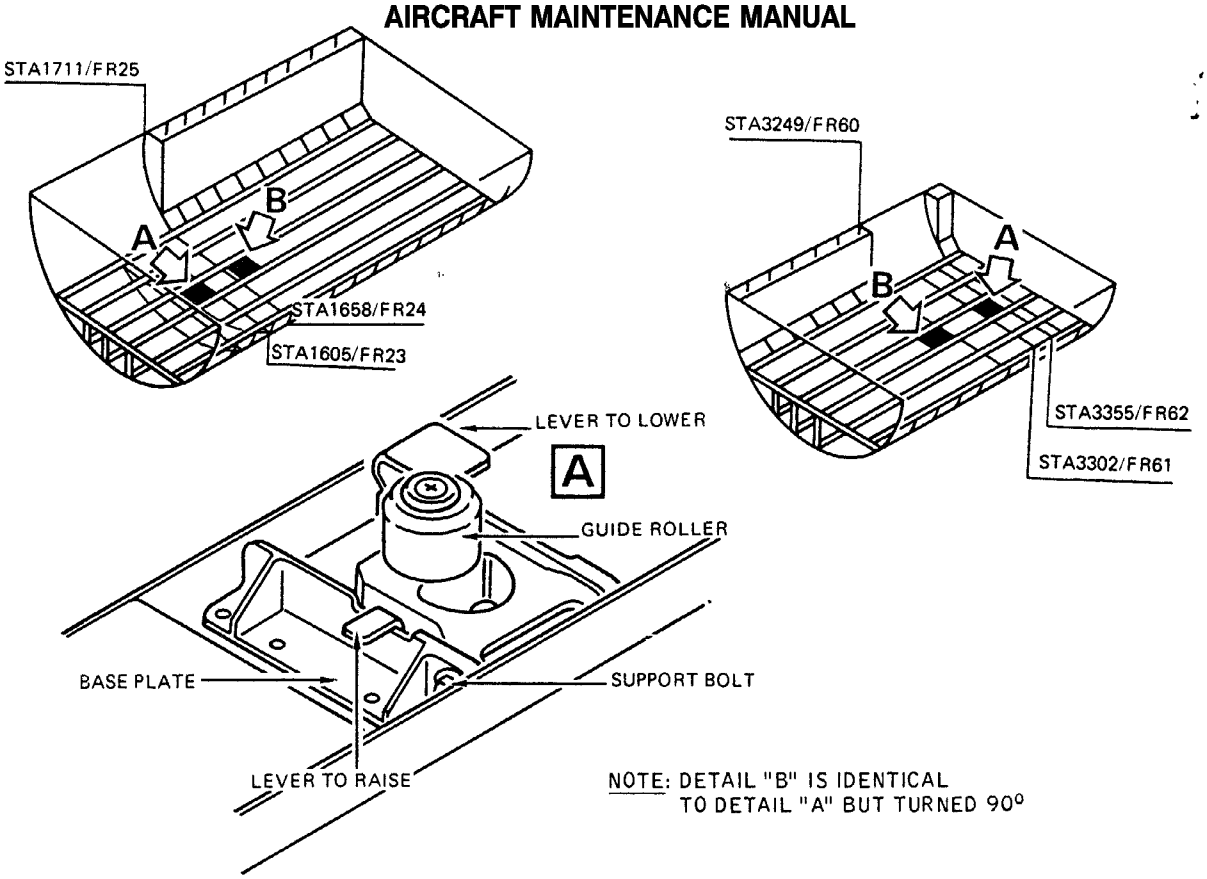
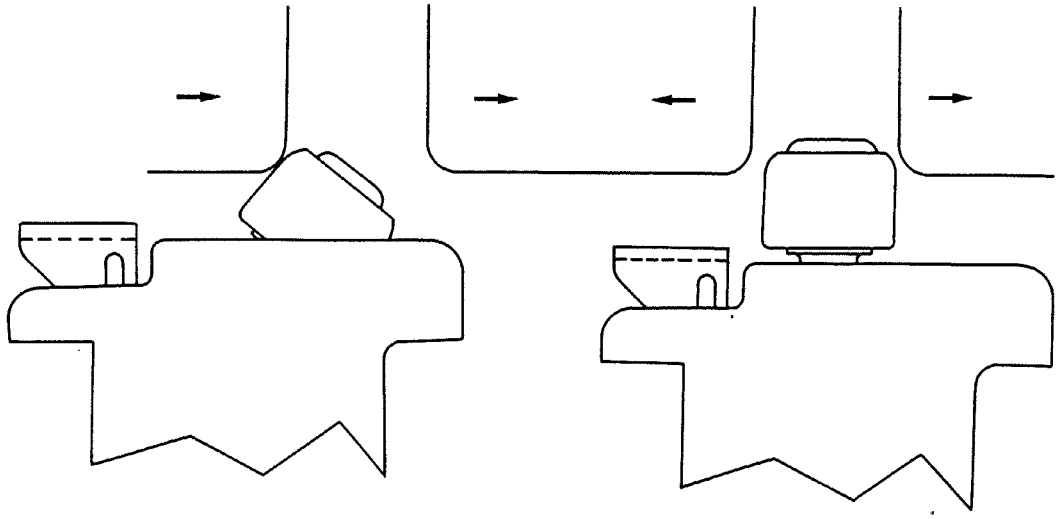
Retractable Container Guide
Figure 018



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Retractable Y-Guide
Figure 019

During unloading of half width containers the guide in the ball mat area must be lowered manually. The guide is provided with two levers. The larger lever is depressed to lower the guide and the smaller lever to raise the guide. Before loading and unloading pallets and full width containers, both retractable Y-guides must be lowered manually.

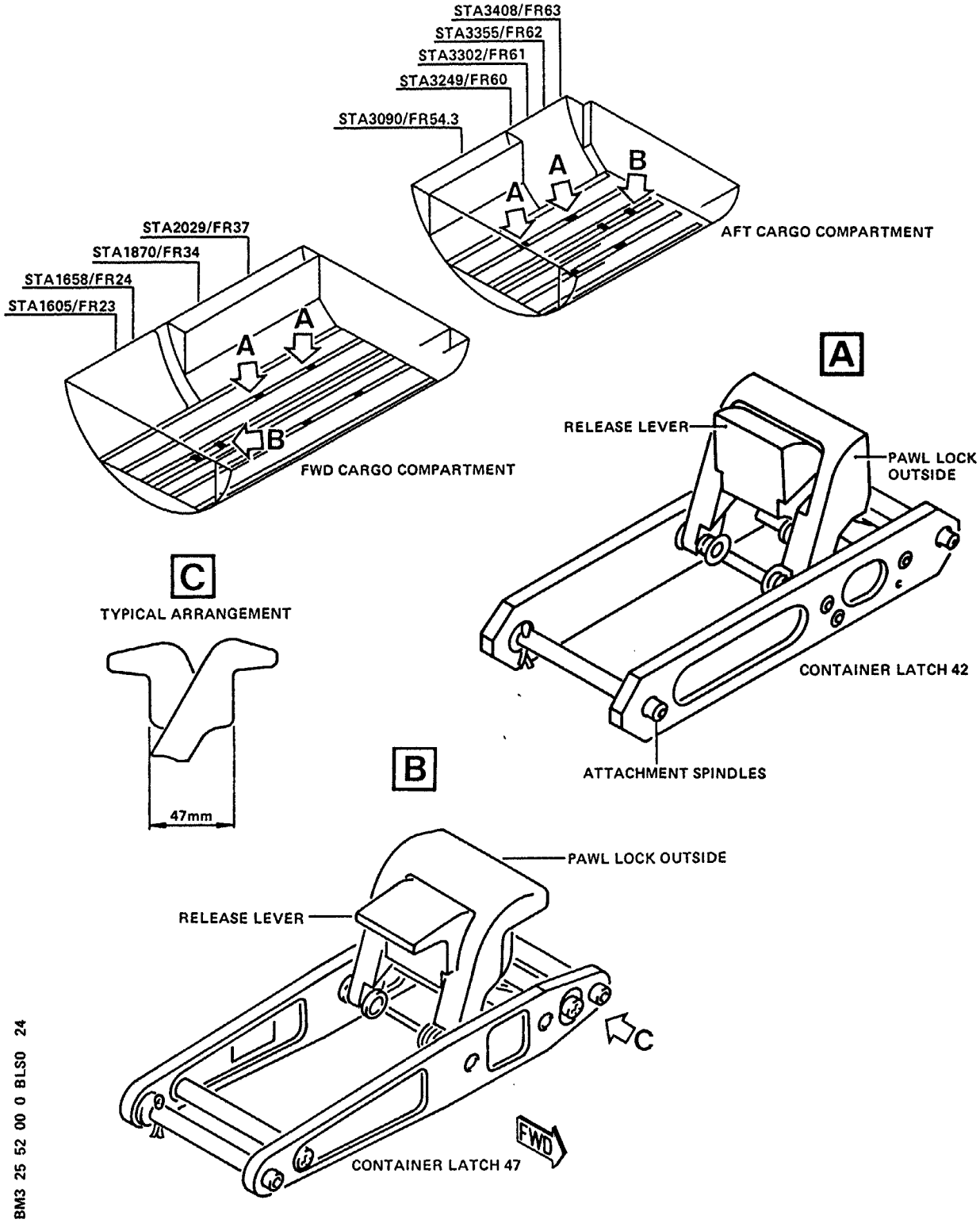
(6) Container Latch 47
(Ref. Fig. 020)
Container latches 47 are installed in the ball mat area of both the FWD and AFT cargo compartments. In the FWD cargo compartment the latches are located between STA1552/FR22 and STA1711/FR25 on the aircraft center line. The latches in the AFT cargo compartment are located between STA3302/FR61 and STA3355/FR62 on the aircraft centerline. The manually-operated latches secure half width containers in both the Y- and Z-directions; the latches provide facilities for securing two containers back-to-back. Limit switches are fitted under selected latches and are wired in series with the associated power drive units so that power is only available to these power drive units when the latches are lowered.

(7) Container Latch 42 (Ref. Fig. 020)
Container latches 42 are installed in the FWD cargo compartment at STA1870/FR34 and STA2029/FR37 and in the AFT compartment at STA3090/FR54.3 and STA3249/FR60. The manually-operated latches secure containers in the X-direction. Limit switches are fitted under selected latches and are wired in series with the associated power drive units so that power is only available to these power drive units when the latches are lowered. These latches secure containers and 2L3P pallets in position.

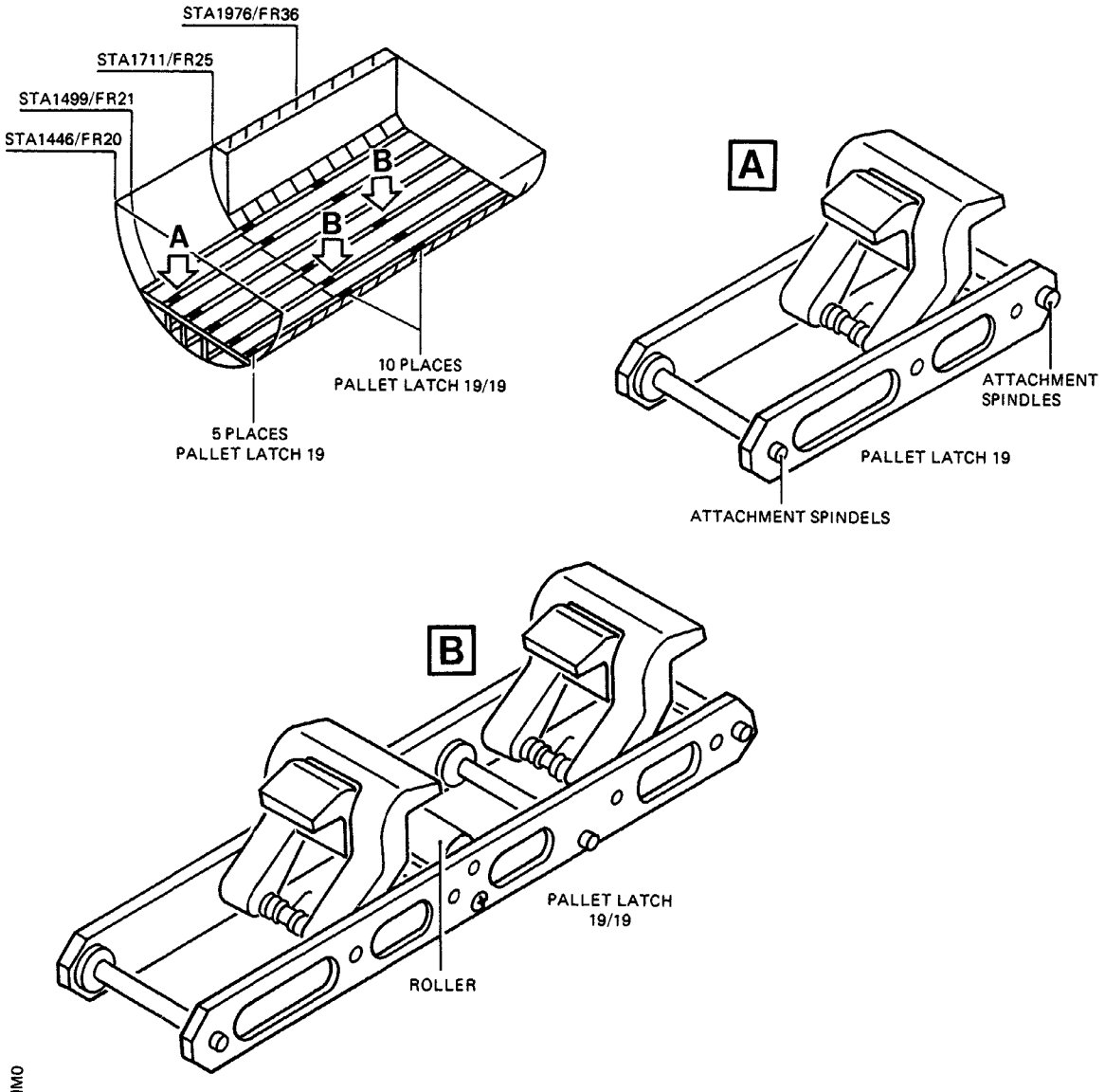
(8) Pallet Latch 19
(Ref. Fig. 021)
Manually-operated pallet latches 19 are installed in the ball mat area of the FWD cargo compartment at STA1446/FR20. Each assembly contains one pair of XZ-latches providing latching of 88 inch pallets only.

(9) Pallet Latch 19/19 (Ref. Fig. 021)
Manually-operated pallet latches 19/19 are installed in the FWD cargo compartment only. The latches are installed across the compartment at STA1711/FR25 and at STA1976/FR36. Each assembly contains two pairs of independent XZ-latches providing back-to-back latching for 88 inch and 96 inch pallets. In the ball mat area the pallet latches 19/19 can be used in conjunction with the retractable container guides to secure full or half width containers in position. Similarly, in loading positions 21L and 21R, the pallet latches 19/19 are used in conjunction with container latches 42 to secure containers. Limit switches are fitted under selected latches and are wired in series with the associated power drive units so that power is only available to these power drive units when the latches are lowered.

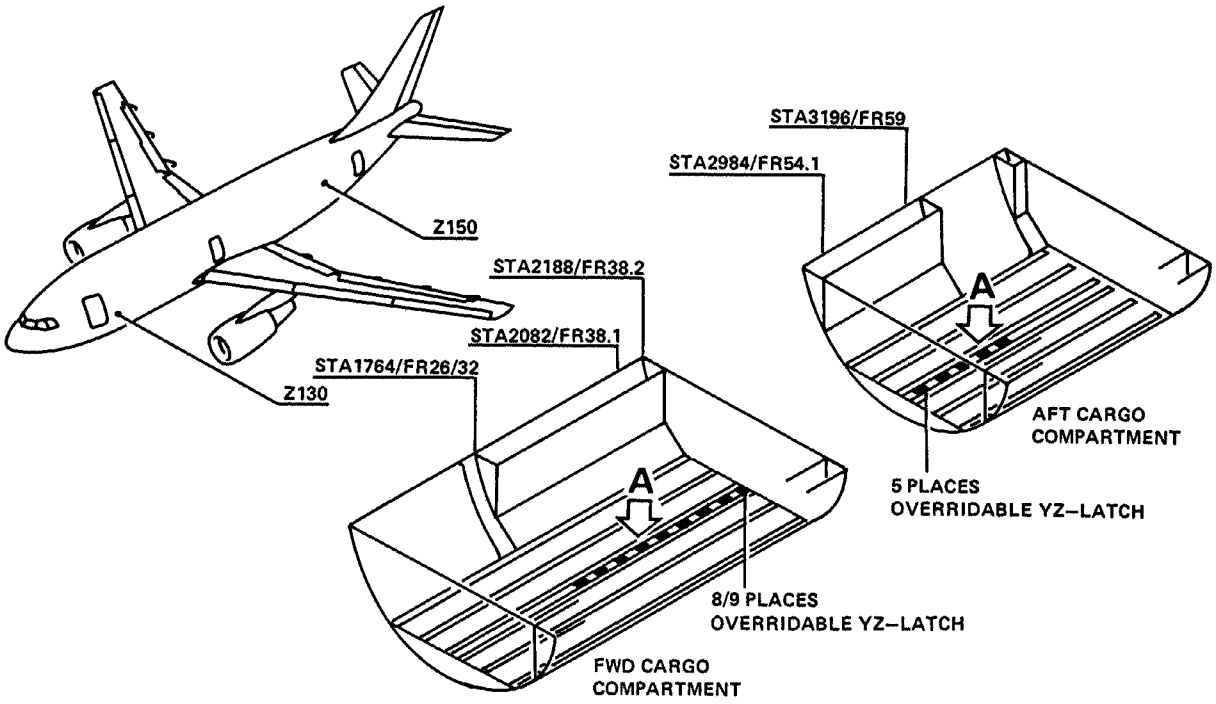
(10) Overridable YZ-Latch
(Ref. Fig. 022)
Overridable YZ-latches are installed in both the FWD and AFT cargo compartments on the aircraft centerline. The latches secure half-width containers in both the Y- and Z-directions. When pallets or full width containers are moved over the latches, the pallet or container

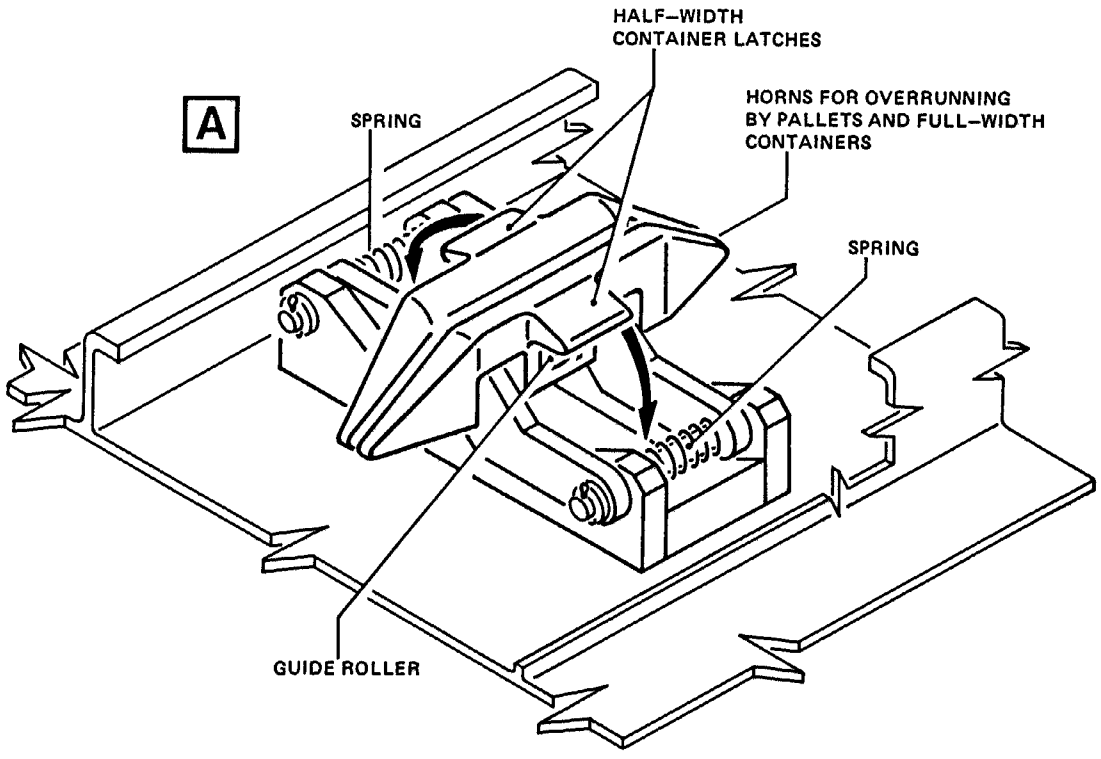



Pallet Latch 47/Container Latch 42
Figure 020




Pallet Latch 19 and Pallet Latch 19/19
Figure 021




BM3 25 52 00 0 BQM0 19

Overridable YZ-Latch
Figure 022

base depresses the latches against spring pressure. Removal of the pallet or container allows the latches to rise automatically.

(11) Fixed Container Latch
(Ref. Fig. 023)
Fixed container latches are secured to the ends of the roller tracks in the FWD cargo compartment at STA2188/FR38.2 and in the AFT cargo compartment at STA2931/FR54. In the FWD cargo compartment, the latches secure pallets and containers in both the X- and Z-directions. In the AFT cargo compartment, the latches secure containers and 2L3 pallets in the X-direction.

(12) Fixed YZ-Latch
(Ref. Fig. 024)
Fixed YZ-latches are secured to the sidewalls of both the FWD and AFT cargo compartments at each frame position. The latches restrain pallets and containers in both the Y- and Z-directions. A vertically mounted roller incorporated within the latch body provides guidance in the X-direction. The upper part of the latch is designed as a tie-down lug with a load capacity of 2000 lbs. (907 kg) in all load directions. Continuous side guides are fitted between the fixed YZ-latches in the FWD cargo compartment only. The guides improve the guidance of misshaped pallets.

(13) Continuous X-Guides
Continuous X-guides are installed in the AFT cargo compartment between the fixed YZ-latches, from STA3196/FR59 LH thru STA/FR62 LH, to prevent damage to the compartment sidewall lining during loading.

(14) Not applicable.

C. Control Components
(Ref. Fig. 025)
The control components comprise a control panel, control box, circuit breaker panel and limit switches. The control panel (920VU) is provided with 28VDC from busbar 505PP via circuit breaker 6MY (in AFT cargo compartment from busbar 503PP via circuit breaker 506MY), and controls relays in the control box (10MY) which, in turn, switch a 115VAC, 3phase supply to the power drive units of the conveyance system. The 115VAC 3phase supply is derived from Route 2P, circuit XN via circuit breaker 1MY (in AFT cargo compartment via circuit breakers 501MY).

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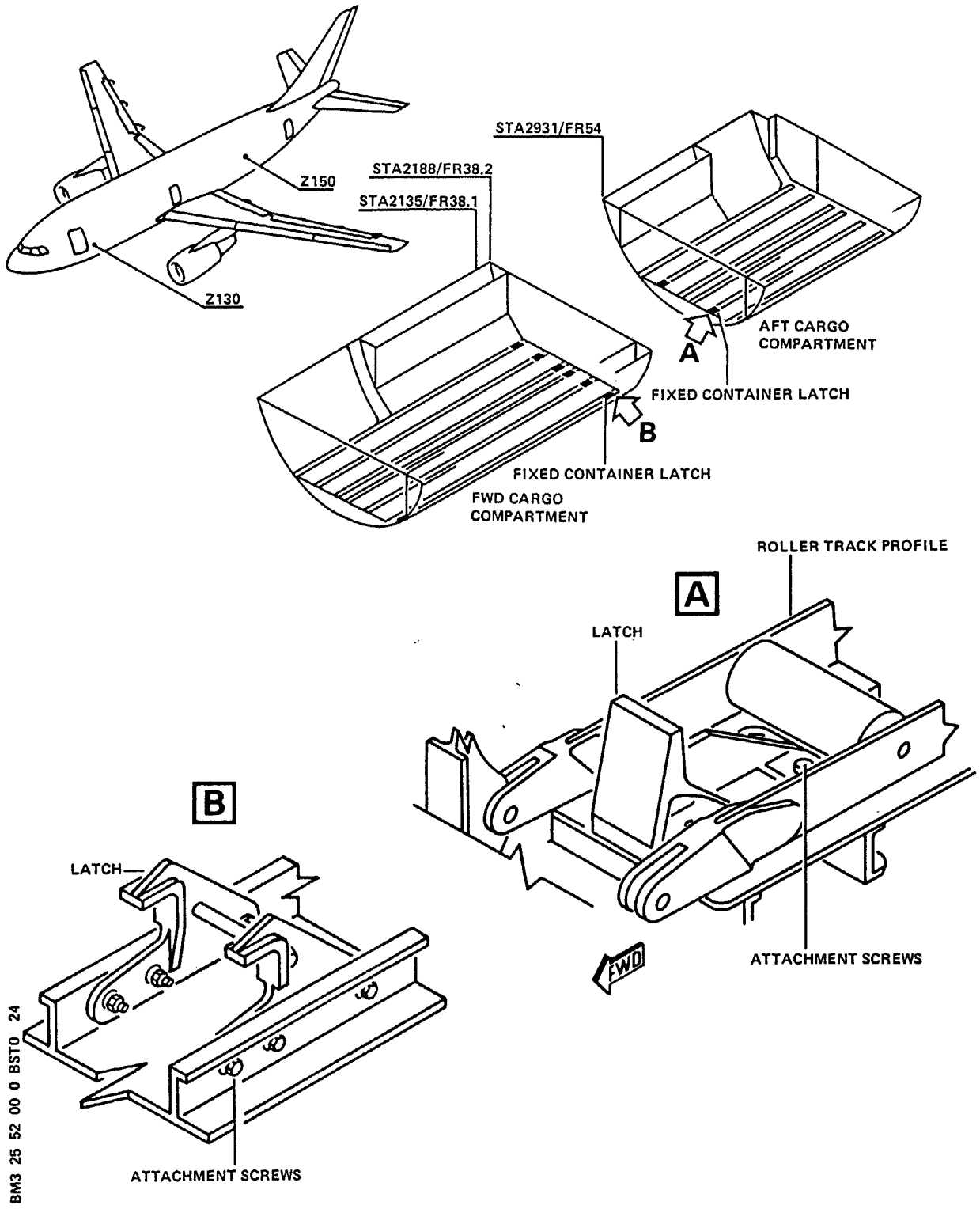
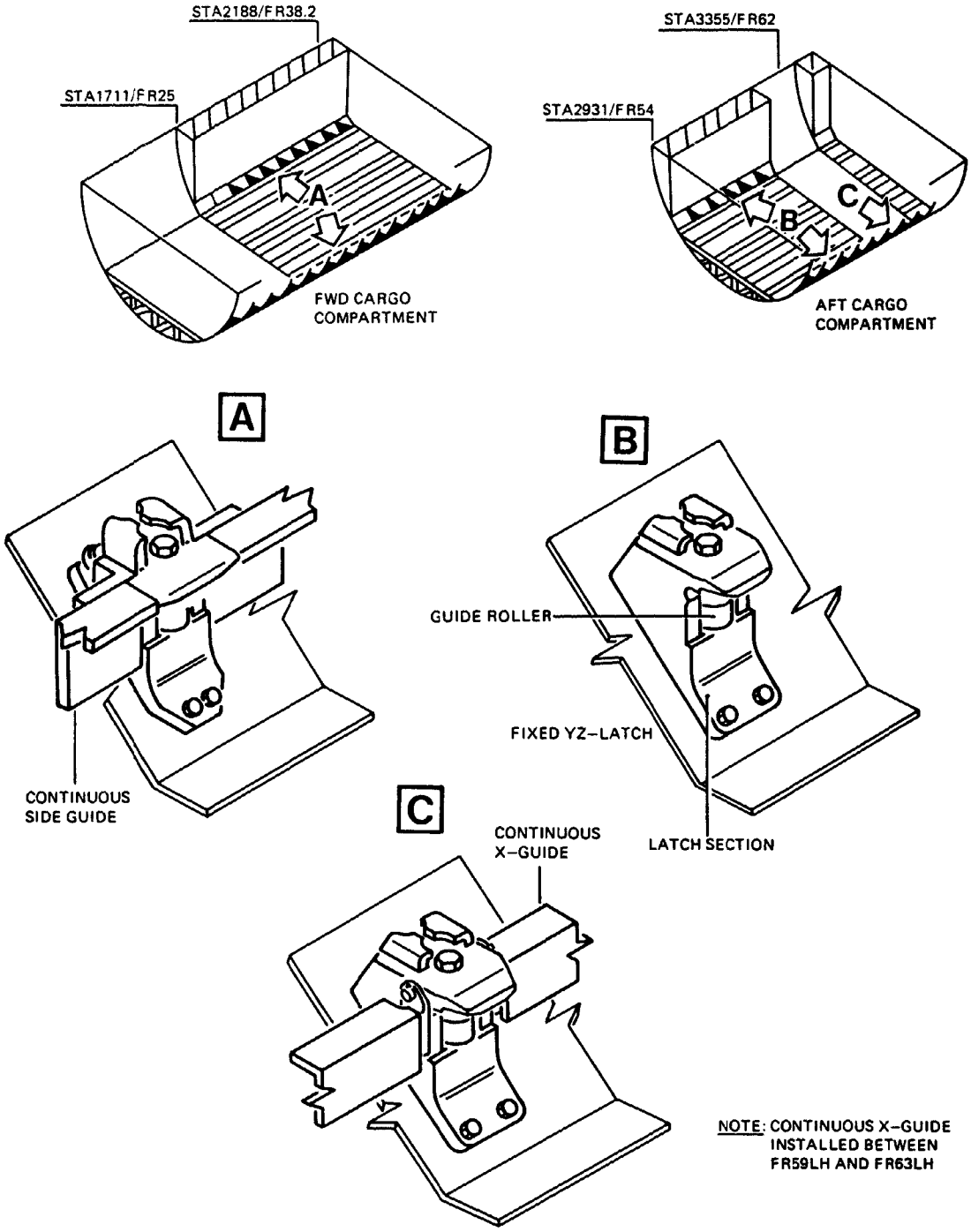
R Post SB 25-2079 For A/C 001-100,

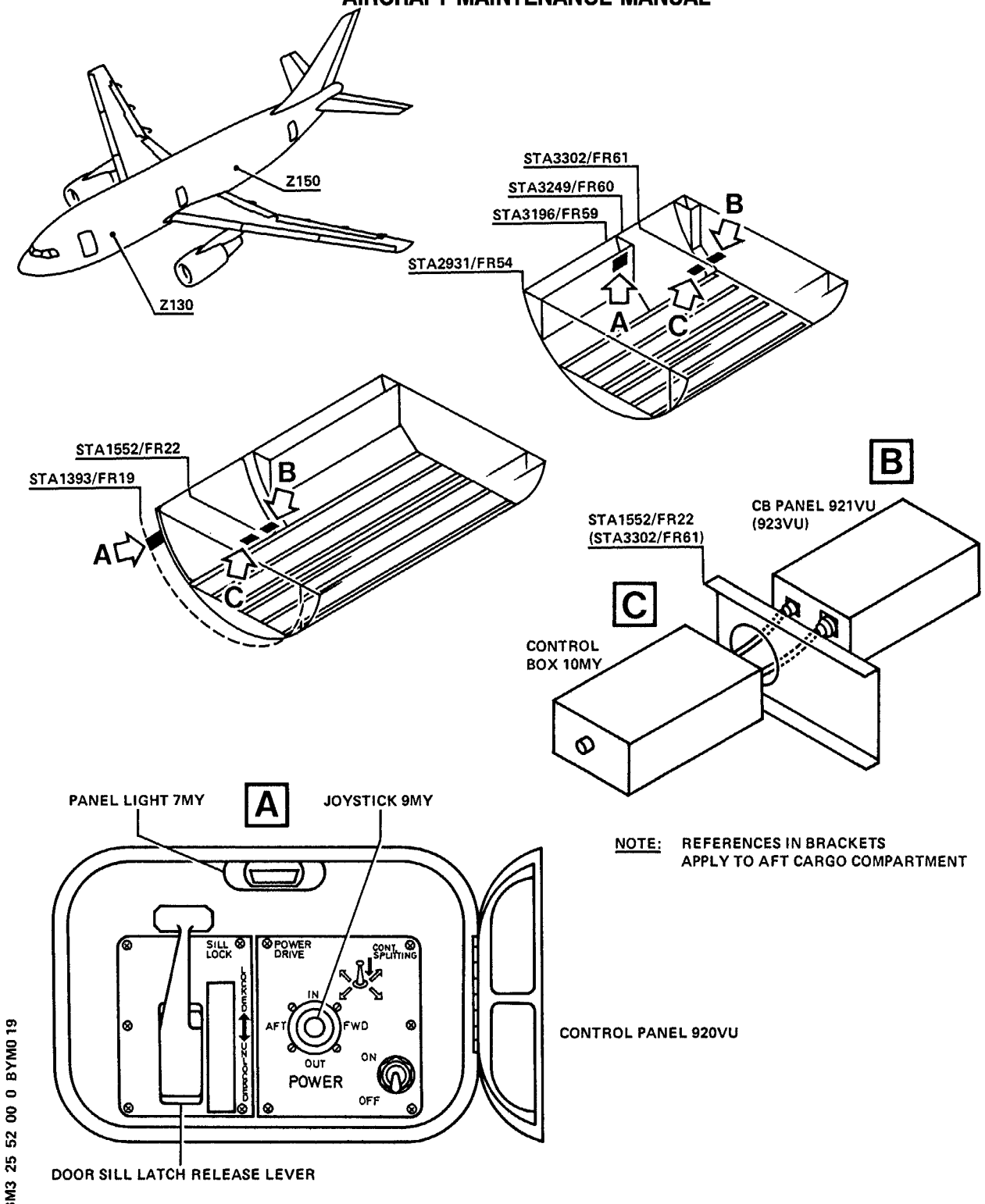
The control components comprise a control panel, control box, circuit breaker panel, limit switches and interlock switches. The control panel (920VU) is provided with 28VDC from busbar 505PP via circuit breaker 6MY in AFT cargo compartment from busbar 503PP via circuit breaker 506MY), and controls relays in the control box (10MY) which, in turn, switch a 115VAC, 3phase supply to the power drive units of the conveyance system. The 115VAC 3phase supply is derived from Route 2P, circuit XN via circuit breaker 1MY (in AFT cargo compartment via circuit breakers 501MY).




Fixed Container Latch
Figure 023




Fixed YZ-Latch and Continuous Guides
Figure 024




NOTE: REFERENCES IN BRACKETS APPLY TO AFT CARGO COMPARTMENT

Control Components
Figure 025

R **ON A/C 001-100,

(1)Control Panel
(Ref. Fig. 026)
(Ref. Fig. 027)
(Ref. Fig. 028)

R **ON A/C 001-100,

R Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 029)

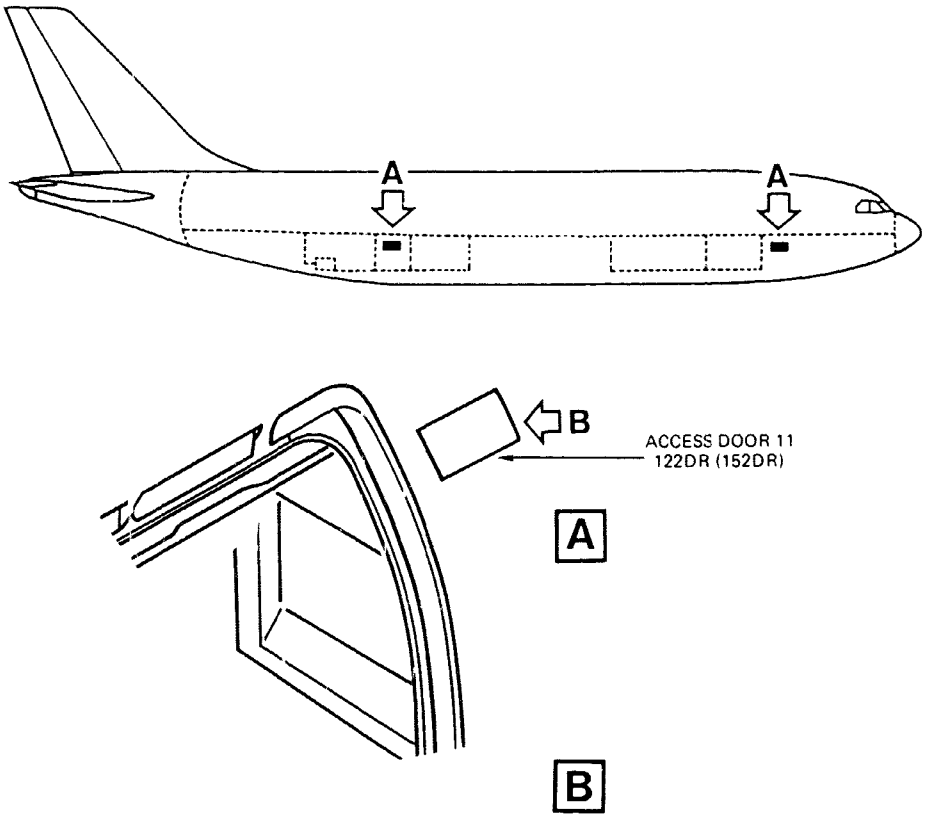
R **ON A/C 001-100,

The control panel 920VU is located in a recessed housing positioned forward of the cargo compartment door. Mounted on the control panel are a power ON/OFF switch, a five-position joystick and a door sill latch operating lever (sill lock). With the manually-operated YZ-latches of the door sill latches lowered, the panel light is illuminated, indicating that 28VDC is available to power ON/OFF switch 8MY. This switch connects the 28V supply to power relay 4A which, in turn, switches the supply to joystick 9MY and closes contacts 4A in the 3phase supply.
The five-position joystick is biased to a center-neutral position and gated to permit the manual selection of only one position at a time. The positions available are:

| Position | Action |
|---|---|
| IN | Transverse power drive units operate in the load direction * |
| FWD | Longitudinal power drive units operate in flight direction |
| AFT | Longitudinal power drive units operate against flight direction |
| OUT | Transverse power drive units operate in the unload direction * |
| SPLIT | Transverse power drive unit in left-hand position operates in load direction, power drive unit in right-hand position operates in unload direction. |

NOTE : When left-hand storage position in ball mat area is occupied, and the associated container latch is raised, only the power drive unit in the right-hand position operates.
Raising of selected latches electrically isolates associated power drive unit.
SPLIT facility is only used loading half width containers in pairs.

The positions IN, FWD, AFT and OUT are engraved on the control panel.

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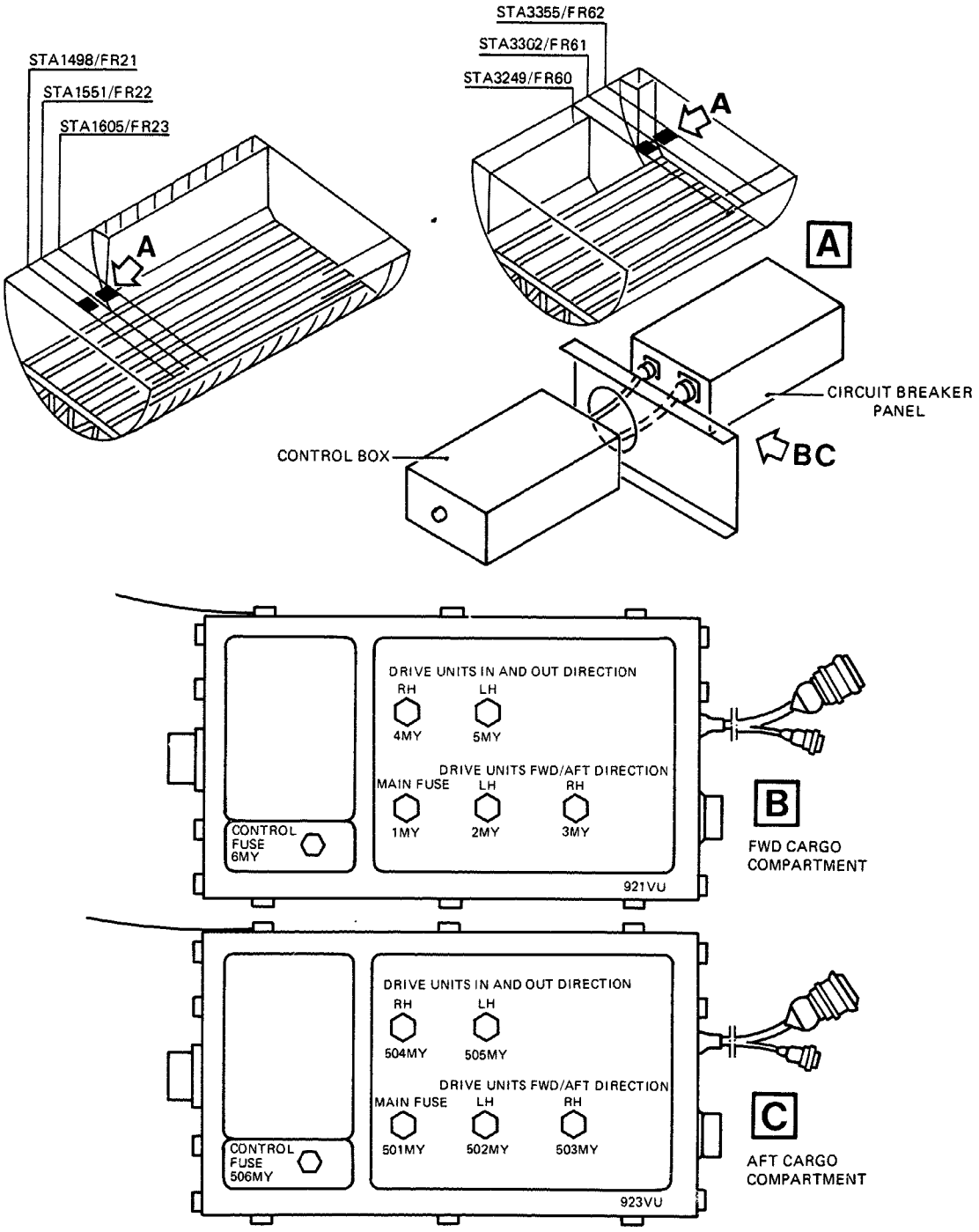
Control Panel
Figure 026

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Circuit Breaker Panel
Figure 027

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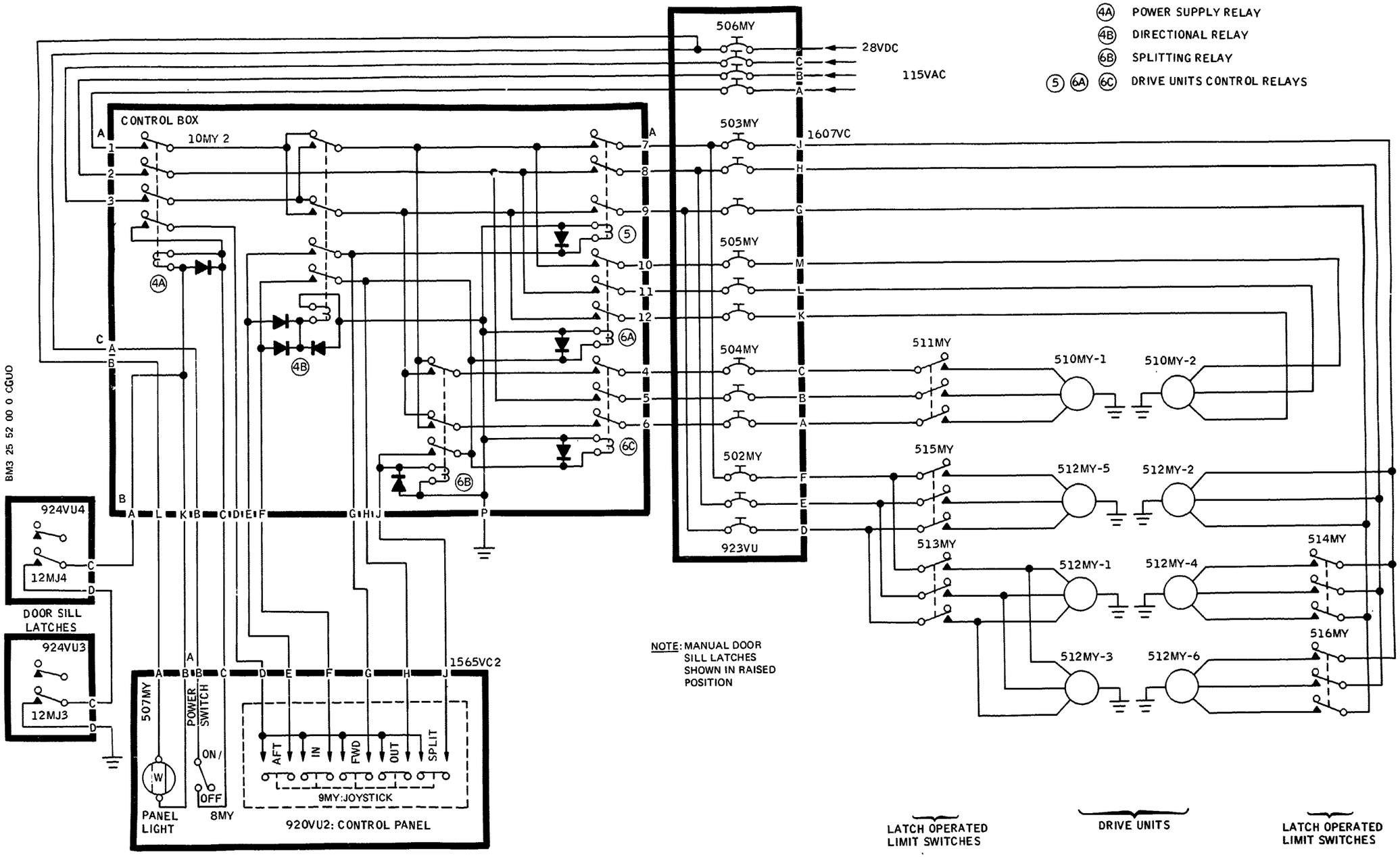
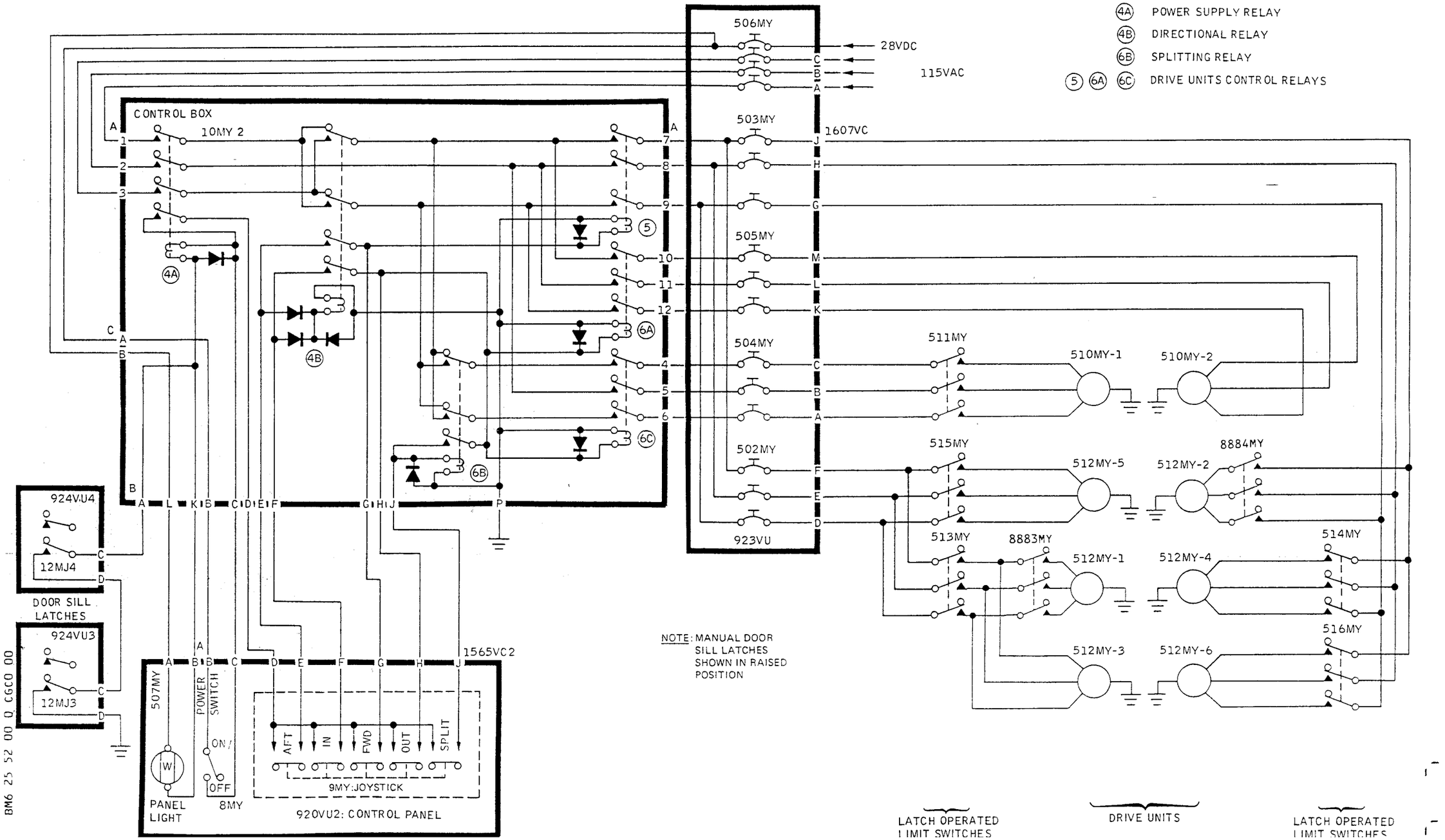



Electrical Schematic - AFT Cargo Compartment
Figure 028




Electrical Schematic - AFT Cargo Compartment
Figure 029

The SPLIT position, obtained by depressing the joystick when in the center-neutral position, ensures that half width containers are aligned with the guides within the cargo compartment.
The door sill operating lever is manually operated to lower the Y-latches of the associated door sill latches.

(2)Control Box (Ref. Fig. 025)
The control box 10MY is located in the ceiling of the cargo compartment aft of STA1605/FR23 in the FWD cargo compartment (fwd of STA3302/FR61 in the AFT cargo compartment) and contains six relays with five protection diodes plus two signal diodes. Relay 4A 'Power ON Relay' is energized by the power ON/OFF switch on control panel 920VU. This relay switches 28VDC to the joystick 9MY and 115VAC 3phase to the direction relay contacts. The direction relays 4B thru 6B are controlled by the joystick and route the supply to the appropriate power drive unit.
The direction relays are energized for each position of the joystick as follows:

IN - relay 4B, 6A, 6C
FWD - relay 5
AFT - relay 4B, 5
OUT - relay 6A, 6C
SPLIT - relay 6A, 6B, 6C

When the SPLIT operation is selected, relay contacts 6B reverse the 3phase supply to right-hand transverse power drive unit in the ball mat area.
This action results in the left-hand transverse power drive unit operating in the load direction and the right-hand power drive unit operating in the unload direction, thus separating the two half width containers.

(3)Circuit Breaker Panel (Ref. Fig. 027)
The circuit breaker panel 921VU (923VU) is located in the ceiling of the cargo compartment fwd of STA1605/FR23 in the FWD cargo compartment (aft of STA3302/FR61 in the AFT cargo compartment). The panel houses five resettable, current-sensitive circuit breakers which provide the control system with circuit overload protection.

(4)Limit Switches
(Ref. Fig. 030)

R **ON A/C 001-100,

R Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 031)

R **ON A/C 001-100,

(Ref. Fig. 032)

R **ON A/C 001-100,

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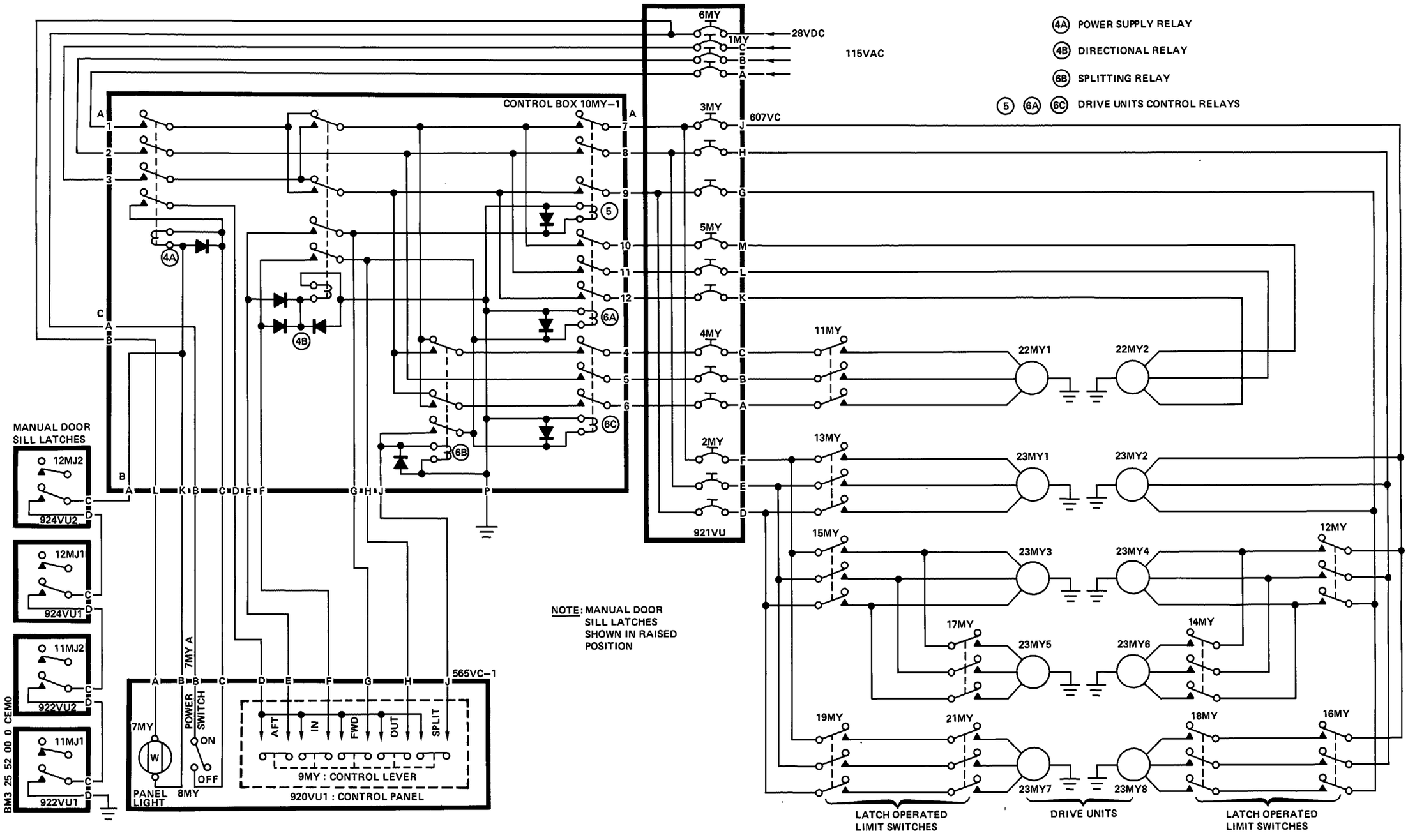
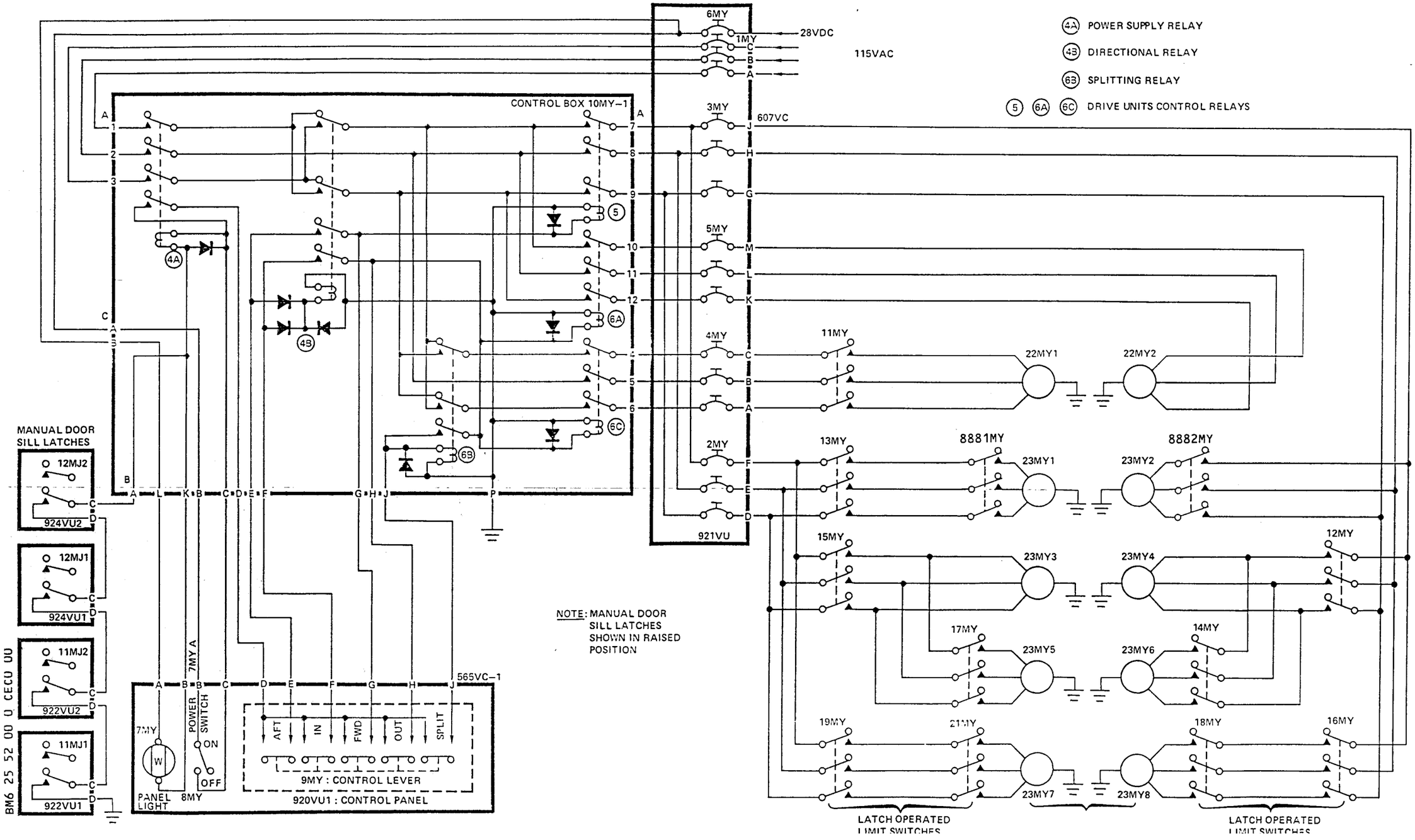


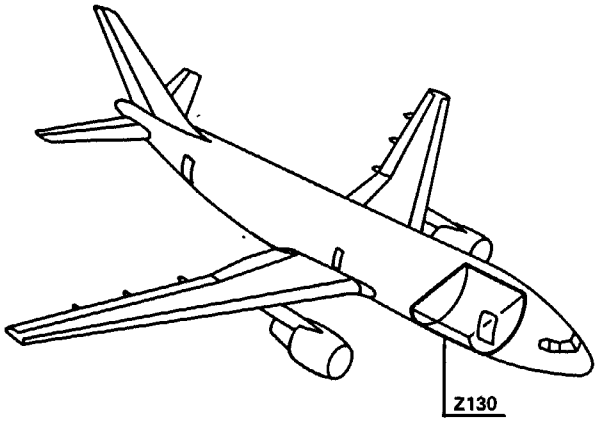

NOTE: MANUAL DOOR SILL LATCHES SHOWN IN RAISED POSITION

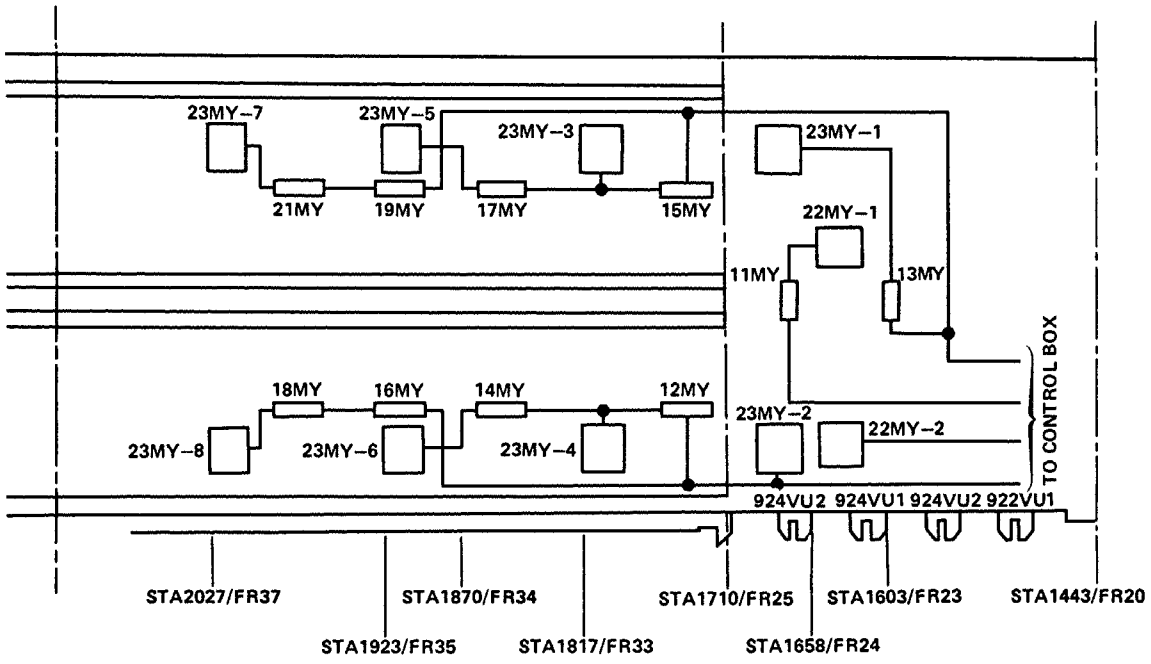
Electrical Schematic - FWD Cargo Compartment
Figure 030




NOTE: MANUAL DOOR SILL LATCHES SHOWN IN RAISED POSITION

Electrical Schematic - FWD Cargo Compartment
Figure 031

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Power Drive Unit Control - FWD Cargo Compartment
Figure 032

R Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 033)

R **ON A/C 001-100,

(Ref. Fig. 034)

R **ON A/C 001-100,

R Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 035)

R **ON A/C 001-100,

Limit switches 11MJ/12MJ are fitted in the door sill latches and are wired in series with both the cargo loading system control panel and the cargo compartment door closing control panel. These limit switches prevent:

(a)Operation of the cargo loading system when the manually-operated YZ-latches of the door sill latches are raised.

(b)Closing of the cargo compartment door when the manually-operated YZ-latches of the door sill latches are lowered.

In addition, limit switches are fitted to selected pallet and container latches. Raising of these latches electrically isolates the associated power drive unit to prevent operation of the power drive unit when a pallet/container is latched in position.

(5)Operation

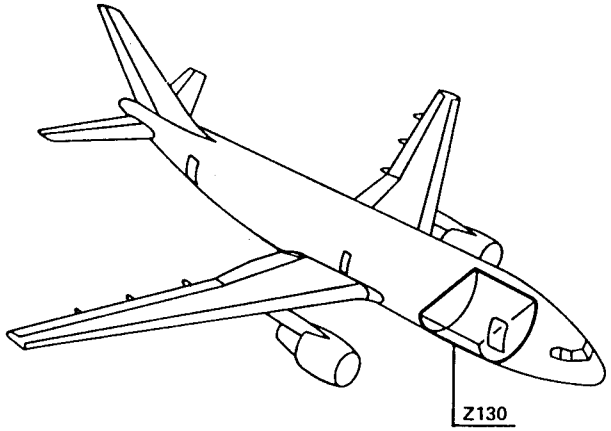
When the door sill latches are lowered, the control panel light will come on indicating that the system can be activated. The system is activated by placing the power ON/OFF switch on the control panel in the ON position. Operation of the joystick on the control panel will now power the power drive units, depending on which direction has been selected.

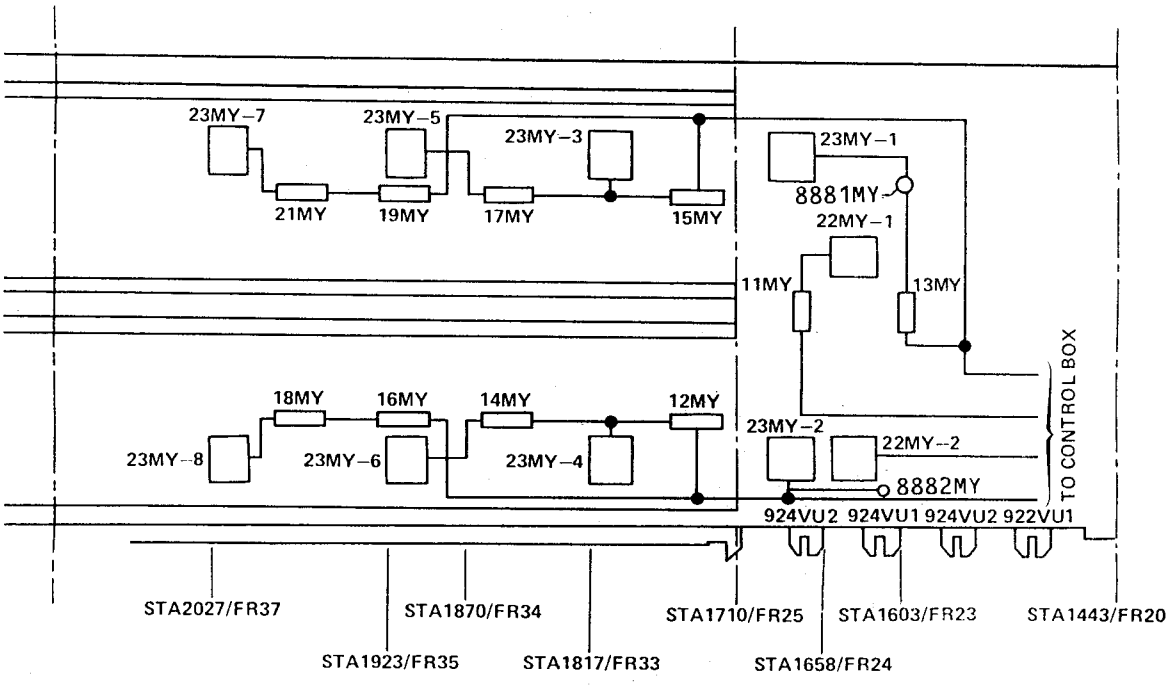
NOTE : The pallet and container latches must be lowered to power the power drive units.

Pairs of half width containers may be loaded together and subsequently split in the door loading area. Splitting is achieved by depressing the joystick in the center position. To deactivate the system, the power ON/OFF switch is placed in the OFF position.

NOTE : The system will deactivate if at any time any one YZ-latch of the door sill latches is raised.

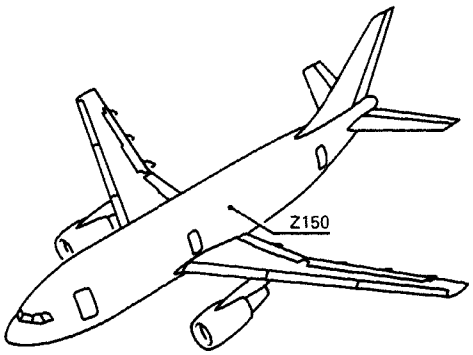
R **ON A/C 001-100,

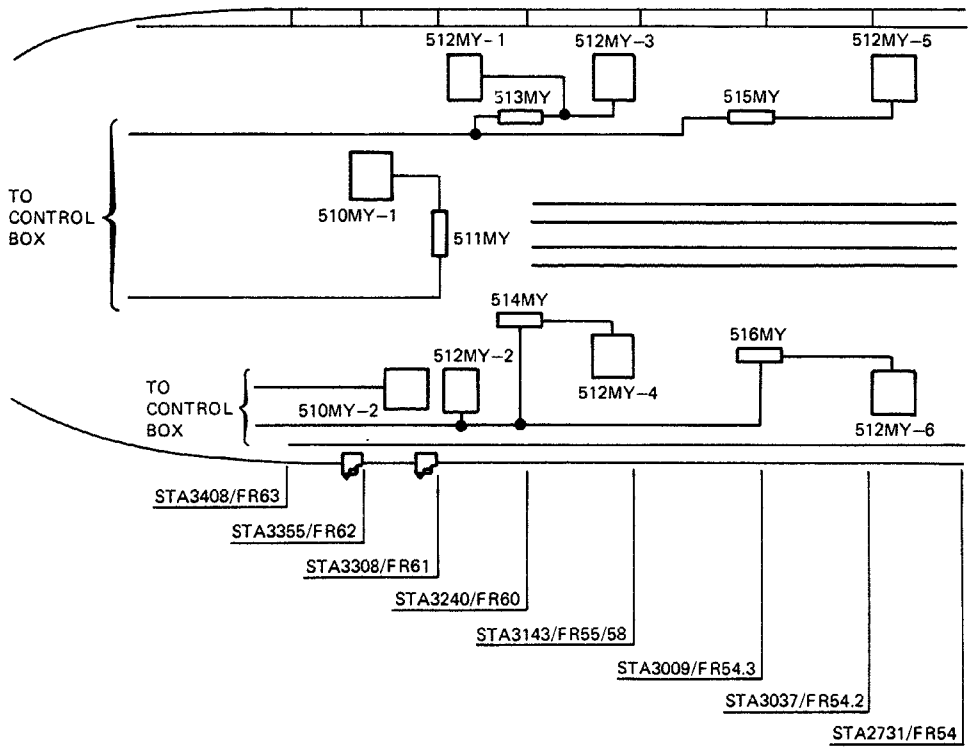



BM6 25 52 00 0 CJC0 00

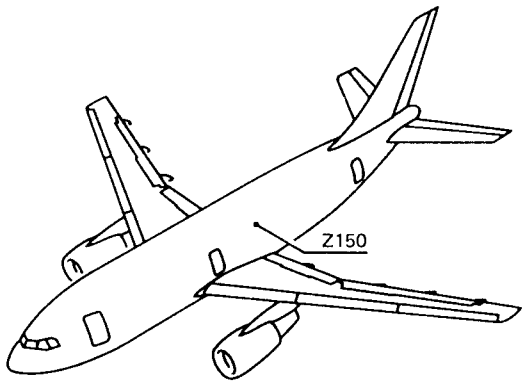
Power Drive Unit Control - FWD Cargo Compartment
Figure 033

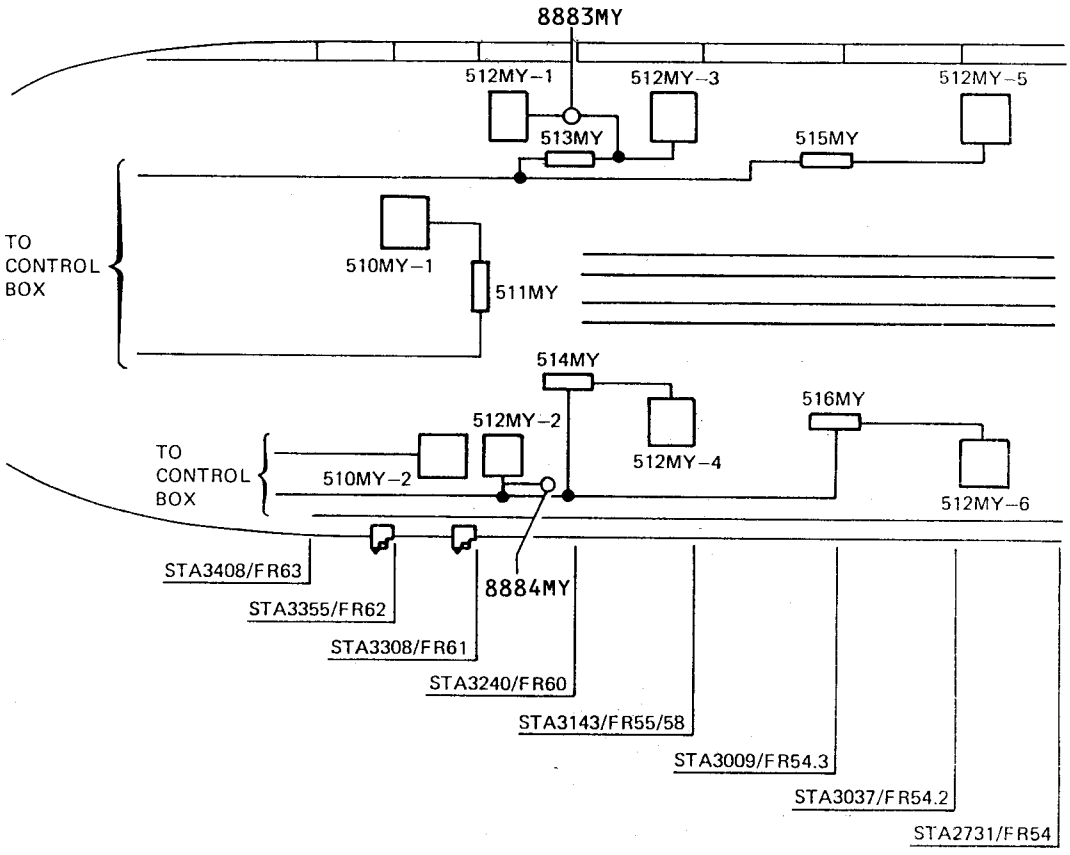



BM3 25 52 00 0 CLUO

Power Drive Unit Control - AFT Cargo Compartment
Figure 034




BM6 25 52 00 0 CLCO 00

Power Drive Unit Control - AFT Cargo Compartment
Figure 035

R Post SB 25-2079 For A/C 001-100,

Limit switches 11MJ/12MJ are fitted in the door sill latches and are wired in series with both the cargo loading system control panel and the cargo compartment door closing control panel. These limit switches prevent:

(a)Operation of the cargo loading system when the manually-operated YZ-latches of the door sill latches are raised.

(b)Closing of the cargo compartment door when the manually-operated YZ-latches of the door sill latches are lowered.

In addition, limit switches are fitted to selected pallet and container latches. Raising of these latches electrically isolates the associated power drive unit to prevent operation of the power drive unit when a pallet/container is latched in position.

(5)Interlock Switches

Interlock switches 8881MY and 8882MY (8883MY and 8884MY) are installed in the ball mat area at FR24 (FR60). The interlock switches operate the PDU when they are pressed down by the weight of the ULD. Thus they prevent an inadvertent operation and damage to the PDU 29MY-1 and 29MY-2 (512MY-1 and 512MY-2).

(6)Operation

When the door sill latches are lowered, the control panel light will come on indicating that the system can be activated. The system is activated by placing the power ON/OFF switch on the control panel in the ON position. Operation of the joystick on the control panel will now power the power drive units, depending on which direction has been selected.

NOTE : The pallet and container latches must be lowered to power the power drive units.

Pairs of half width containers may be loaded together and subsequently split in the door loading area. Splitting is achieved by depressing the joystick in the center position. To deactivate the system, the power ON/OFF switch is placed in the OFF position.

NOTE : The system will deactivate if at any time any one YZ-latch of the door sill latches is raised.

R **ON A/C 001-100,

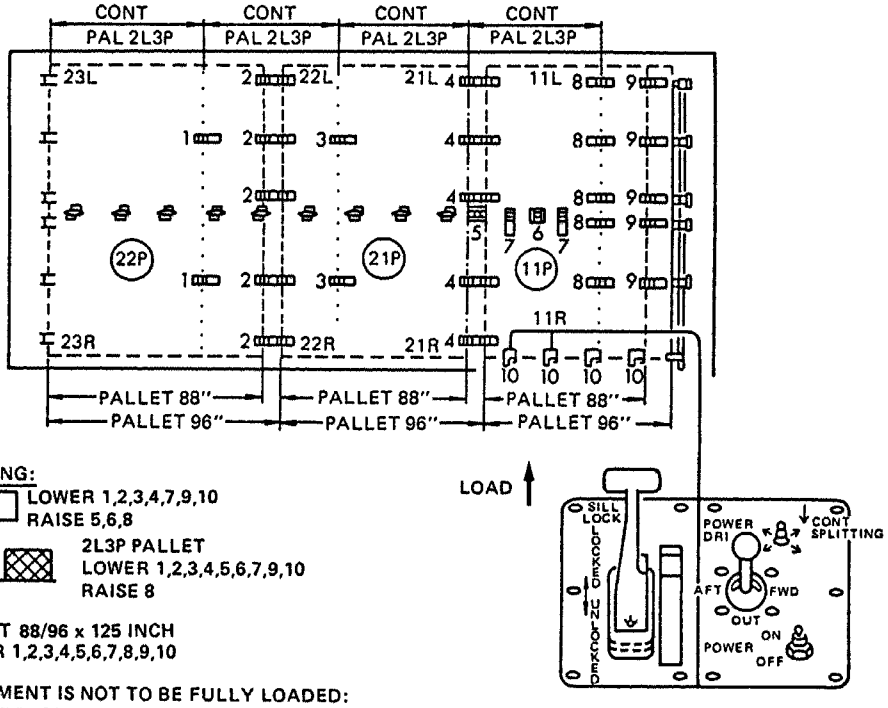
4. Operation

The procedures for operating the cargo loading system are given in the following illustrations.

A. FWD Cargo Compartment - Powered Operation
(Ref. Fig. 036)
(Ref. Fig. 037)

B. FWD Cargo Compartment - Manual Operation

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES
– OPEN CONTROL PANEL DOOR
– SET "POWER" SWITCH TO "ON"




BEFORE LOADING:

1. OR LOWER 1,2,3,4,7,9,10
   RAISE 5,6,8
2. OR 2L3P PALLET
   LOWER 1,2,3,4,5,6,7,9,10
   RAISE 8
3. PALLET 88/96 x 125 INCH
   LOWER 1,2,3,4,5,6,7,8,9,10

NOTE: IF COMPARTMENT IS NOT TO BE FULLY LOADED:
(1) RAISE LATCHES AT REQUIRED END POSITION
(2) RAISE LATCHES IN UNOCCUPIED POSITIONS EACH SIDE OF ULD

A. CONTAINER: HALF WIDTH

NOTE: WHEN LOADING CONTAINERS SINGLY LOAD LEFT–HAND ROW (L) FIRST.

(1) MOVE CONTAINER ONTO BALL MAT AREA
(2) SELECT "IN" ON JOYSTICK UNTIL CONTAINER IS FULLY IN COMPARTMENT

NOTE: WHEN LOADING CONTAINERS IN PAIRS, FILL POSITIONS 11 L/R, CENTER JOY–STICK AND PUSH IN (SPLITTING) UNTIL CONTAINERS ARE LINED UP FOR AFT MOVEMENT.

(3) SELECT "AFT" AND HOLD UNTIL CONTAINER IS IN REQUIRED POSITION
(4) LOCK IN POSITION BY RAISING LATCHES

NOTE: WHEN LATCHING A CONTAINER AT A DOUBLE LATCH, RAISE BOTH LATCH ELEMENTS

(5) REPEAT (1) THRU (4) TO LOAD REMAINING POSITIONS

B. CONTAINER: FULL WIDTH

(1) REPEAT A(1) THRU A(5)

C. PALLET: 88/96 x 125 INCH

(1) MOVE PALLET ONTO BALL MAT AREA
(2) SELECT "IN" ON JOYSTICK AND HOLD UNTIL PALLET IS FULLY IN COMPARTMENT
(3) SELECT "AFT" AND HOLD UNTIL PALLET IS IN REQUIRED POSITION
(4) LOCK IN POSITION BY RAISING LATCHES

NOTE: WHEN LATCHING AN 88 IN. PALLET AT A DOUBLE LATCH, RAIS BOTH LATCH ELEMENTS.

(5) REPEAT (1) THRU (4) TO LOAD REMAINING POSITIONS

D. PALLET: 2L3P PALLET

(1) REPEAT A(1) THRU A(5)

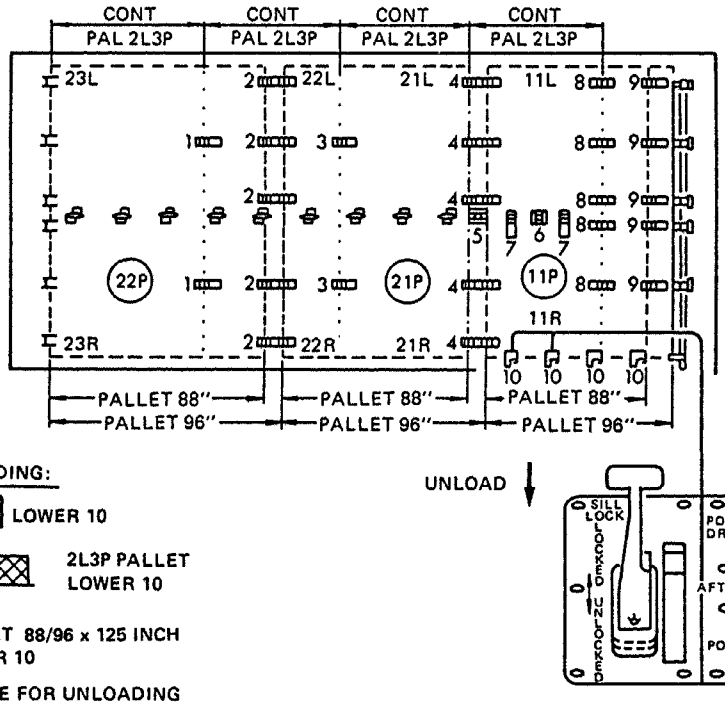
– RAISE LATCHES 10
– SET "POWER" SWITCH TO "OFF"
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CNS0 23

Powered Loading - FWD Cargo Compartment
Figure 036

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES

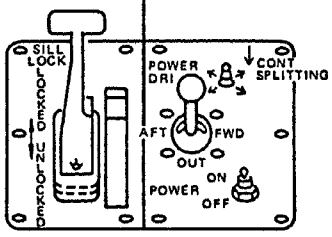
– OPEN CONTROL PANEL DOOR
– SET "POWER" SWITCH TO "ON"




BEFORE UNLOADING:

1. OR LOWER 10
2. OR 2L3P PALLET LOWER 10
3. PALLET 88/96 x 125 INCH LOWER 10

UNLOAD




PROCEDURE FOR UNLOADING A FULL COMPARTMENT

A. CONTAINER: HALF WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL CONTAINER AT POSITION 11 R MOVES ONTO LOADER
(3.1) LOWER LATCHES 7 AND OVERRIDABLE SPLITTER 6
(3.2) SELECT "OUT" ON JOYSTICK AND HOLD UNTIL CONTAINER AT POSITION 11 L MOVES ONTO POSITION 11R
(4) REPEAT (1), (2)
(5) LOWER LATCHES AT NEXT CONTAINER (OR CONTAINERS IF UNLOADING IN PAIRS)
(6) SELECT "FWD" AND HOLD UNTIL CONTAINER (OR CONTAINERS) LINE UP WITH DOORWAY
(7) REPEAT (1)
(8) SELECT "OUT" AND HOLD UNTIL CONTAINER MOVES ONTO LOADER
(9) REPEAT (5) THRU (8) UNTIL COMPARTMENT IS EMPTY

B. CONTAINER: FULL WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL CONTAINER AT POSITION 11 R/L MOVES ONTO LOADER
(3) LOWER LATCHES AT NEXT CONTAINER
(4) SELECT "FWD" AND HOLD UNTIL CONTAINER IS IN LINE WITH DOORWAY
(5) REPEAT (1), (2)
(6) REPEAT (3), (4), (1), (2), UNTIL COMPARTMENT IS EMPTY

C. PALLET: 88/96 x 125 INCH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL PALLET AT POSITION 11 P MOVES ONTO LOADER
(3) LOWER LATCHES AT NEXT PALLET
(4) SELECT "FWD" AND HOLD UNTIL PALLET IS IN LINE WITH DOORWAY
(5) REPEAT (1), (2)
(6) REPEAT (3), (4), (1), (2) UNTIL COMPARTMENT IS EMPTY

D. PALLET: 2L3P PALLET

(1) REPEAT B(1) THRU B(6)

– RAISE LATCHES 10
– SET "POWER" SWITCH TO "OFF"

– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CQS0 23

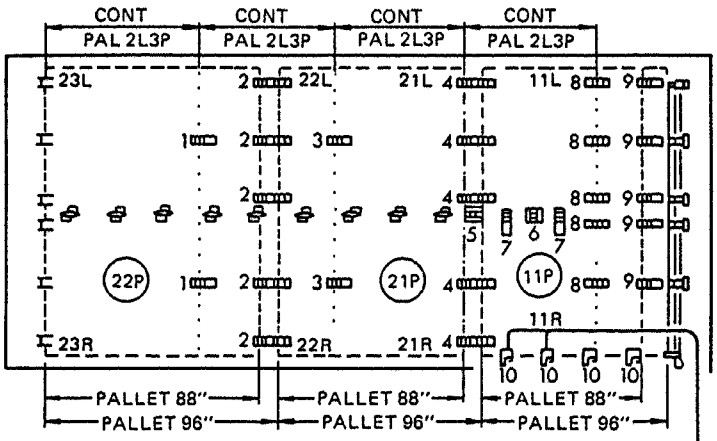
Powered Unloading - FWD Cargo Compartment
Figure 037

(Ref. Fig. 038)
(Ref. Fig. 039)

C. AFT Cargo Compartment - Powered Operation
(Ref. Fig. 040)
(Ref. Fig. 041)

D. AFT Cargo Compartment - Manual Operation
(Ref. Fig. 042)
(Ref. Fig. 043)

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES AS DETAILED



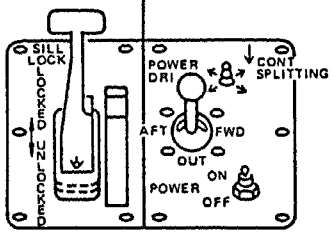

BEFORE LOADING:

1. OR LOWER 1,2,3,4,7,9,10
   RAISE 5,6,8
2. OR 2L3P PALLET
   LOWER 1,2,3,4,5,6,7,9,10
   RAISE 8
3. PALLET 88/96 x 125 INCH
   LOWER 1,2,3,4,5,6,7,8,9,10

NOTE: IF COMPARTMENT IS NOT BE FULLY LOADED:

(1) RAISE LATCHES AT REQUIRED END POSITION
(2) RAISE LATCHES IN UNOCCUPIED POSITIONS EACH SIDE OF ULD

LOAD




A. CONTAINER: HALF/FULL WIDTH

NOTE: WHEN LOADING HALF WIDTH CONTAINER, LOAD LEFT–HAND ROW (L) FIRST

(1) PUSH CONTAINER INTO POSITION
(2) LOCK IN POSITION BY RAISING LATCHES
(3) REPEAT (1) AND (2) UNTIL ALL POSITIONS ARE LOADED

B. PALLET: 88/96 x 125 INCH

(1) PUSH PALLET INTO POSITION
(2) LOCK IN POSITION BY RAISING LATCHES

NOTE: WHEN LATCHING AN 88 IN. PALLET AT A DOUBLE LATCH, RAISE BOTH LATCH ELEMENTS.

(3) REPEAT (1) AND (2) UNTIL ALL POSITIONS ARE LOADED

C. PALLET: 2L3P PALLET

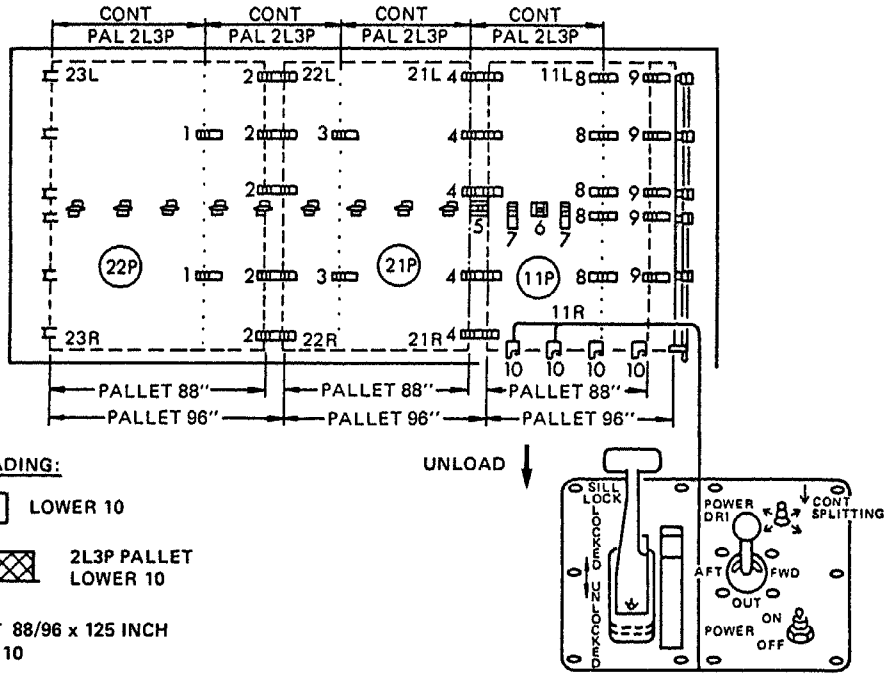
(1) REPEAT A(1) THRU A(3)

– RAISE LATCHES 10
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CSS0 23

Manual Loading - FWD Cargo Compartment
Figure 038

– OPEN COMPARTMENT DOOR
– OPEN CONTROL PANEL DOOR
– SET UP LATCHES/GUIDES




BEFORE UNLOADING:

1. OR LOWER 10
2. OR 2L3P PALLET LOWER 10
3. PALLET 88/96 x 125 INCH LOWER 10

PROCEDURE FOR UNLOADING A FULL COMPARTMENT

A. CONTAINER: HALF WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) CONTAINER AT POSITION 11R – MOVE FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT CONTAINER IN RIGHT–HAND ROW (R)
(4) MOVE CONTAINER TO LINE UP WITH DOORWAY
(5) REPEAT (1) THRU (4) TO UNLOAD RIGHT–HAND ROW (R)
(6) LOWER LATCHES 7 AND OVERRIDABLE SPLITTER 6
(7) MOVE CONTAINER FROM POSITION 11 L TO 11 R
(8) REPEAT (1), (2)
(9) LOWER LATCHES AT NEXT CONTAINER IN LEFT–HAND ROW
(10) REPEAT (4), (7), (1), (2) AND (9) UNTIL COMPARTMENT IS EMPTY

B. CONTAINER: FULL WIDTH

(1) REPEAT A (1)
(2) CONTAINER AT POSITION 11 L/R – MOVE FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT CONTAINER
(4) REPEAT A (4)
(5) REPEAT A(1), B(2), B(3), A(4)

C. PALLET: 88/96 x 125 INCH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) MOVE PALLET FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT PALLET
(4) MOVE PALLET TO POSITION 11 P
(5) REPEAT (1), (2)
(6) REPEAT (3), (4), (1), (2) UNTIL COMPARTMENT IS EMPTY

D. PALLET: 2L3P PALLET

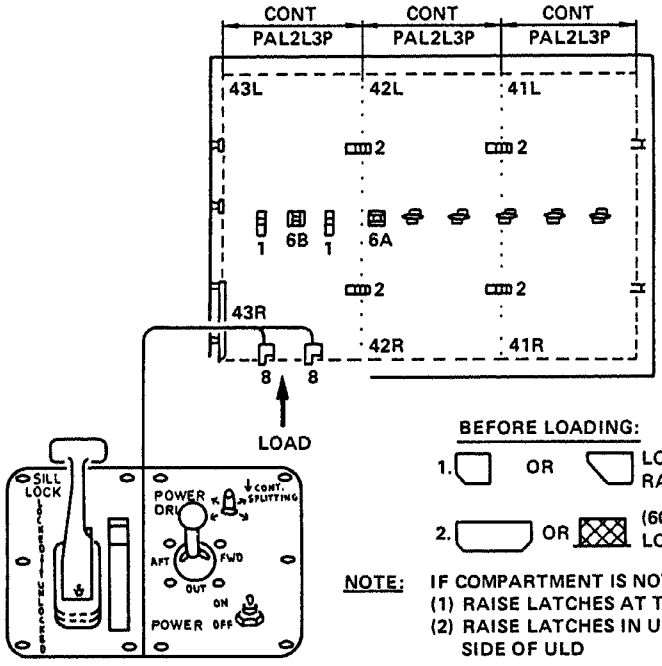
(1) REPEAT B(1) THRU B(5)

– RAISE LATCHES 10
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CUS0 23

Manual Unloading - FWD Cargo Compartment
Figure 039

– OPEN COMPARTMENT DOOR
– SET UP LATCHES
– OPEN CONTROL PANEL DOOR
– SET "POWER" SWITCH TO "ON"




BEFORE LOADING:

1. OR LOWER 1,2,8
RAISE 6A,6B

2. OR (60.4 x 125 INCH: 2L3P)
LOWER 1,2,6A,6B,8

NOTE: IF COMPARTMENT IS NOT TO BE FULLY LOADED
(1) RAISE LATCHES AT THE REQUIRED END POSITION
(2) RAISE LATCHES IN UNOCCUPIED POSITIONS EACH SIDE OF ULD

A. CONTAINER: HALF WIDTH

NOTE: WHEN LOADING CONTAINERS SINGLY LOAD LEFT–HAND ROW (L) FIRST

(1) MOVE CONTAINER ONTO BALL MAT AREA
(2) SELECT "IN" ON JOYSTICK UNTIL CONTAINER IS FULLY IN COMPARTMENT

NOTE: WHEN LOADING CONTAINERS IN PAIRS, FILL POSITIONS 43 L/R, CENTER JOY–STICK AND PUSH IN (SPLITTING) UNTIL CONTAINERS ARE LINED UP FOR "FWD" MOVEMENT.

(3) SELECT "FWD" AND HOLD UNTIL CONTAINER IS IN REQUIRED POSITION
(4) LOCK IN POSITION BY RAISING LATCHES
(5) REPEAT (1) THRU (4) TO LOAD REMAINING POSITIONS

B. CONTAINER: FULL WIDTH

(1) REPEAT OPERATION A(1) THRU A(5)

C. PALLET: 60.4 x 125 INCH (2L3P)

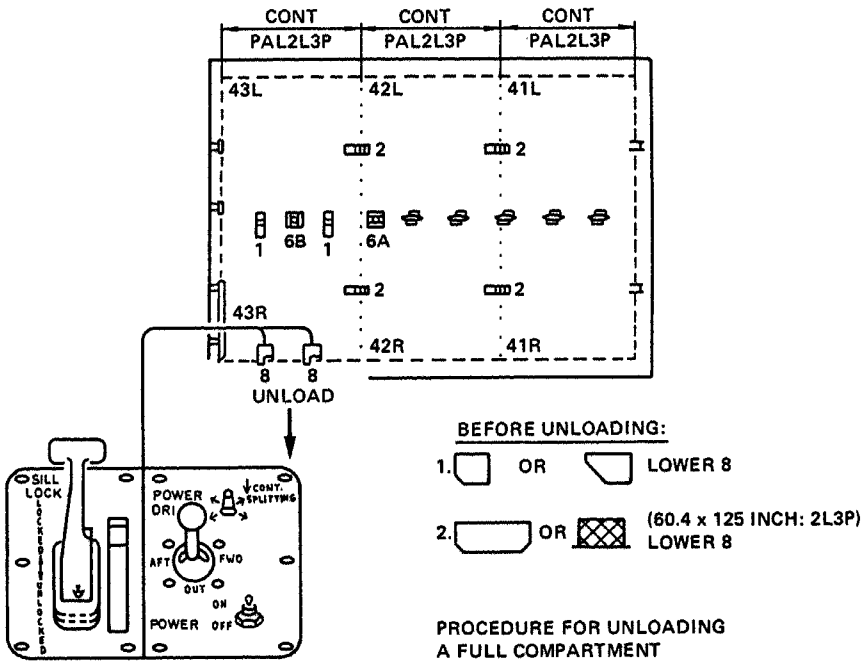
(1) REPEAT OPERATIONS (A(1) THRU A(5)

– RAISE LATCHES 8
– SET "POWER" SWITCH TO "OFF"
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CWC0 26

Powered Loading - AFT Cargo Compartment
Figure 040

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES
– OPEN CONTROL PANEL DOOR
– SET "POWER" SWITCH TO "ON"




PROCEDURE FOR UNLOADING
A FULL COMPARTMENT

A. CONTAINER: HALF WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL CON–TAINER AT POSITION 43R MOVES ONTO LOADER
(3.1) LOWER LATCHES 1 AND OVERRIDABLE SPLITTER 6
(3.2) SELECT "OUT" ON JOYSTICK AND HOLD UNTIL CONTAINER AT POSITION 43L MOVES ONTO POSITION 43R
(4) REPEAT (1),(2) FOR CONTAINER AT PO–SITION 43L
(5) LOWER LATCHES AT NEXT CONTAINER (OR CONTAINERS IF UNLOADING IN PAIRS)
(6) SLECT "AFT" AND HOLD UNTIL CONTAINER (OR CONTAINERS) LINE UP WITH DOORWAY
(7) REPEAT (1)
(8) SELECT "OUT" AND HOLD UNTIL CONTAINER MOVES ONTO LOADER
(9) REPEAT (5) THRU (8) UNTIL COMPARTMENT IS EMPTY

B. CONTAINER: FULL WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL CON–TAINER IN DOORWAY MOVES ONTO LOADER
(3) LOWER LATCHES AT NEXT CONTAINER
(4) SELECT "AFT" AND HOLD UNTIL CONTAINER IS IN LINE WITH DOORWAY
(5) REPEAT (1),(2)
(6) REPEAT (3),(4),(1),(2)

C. PALLET: 60.4 x 125 INCH (2L3P)

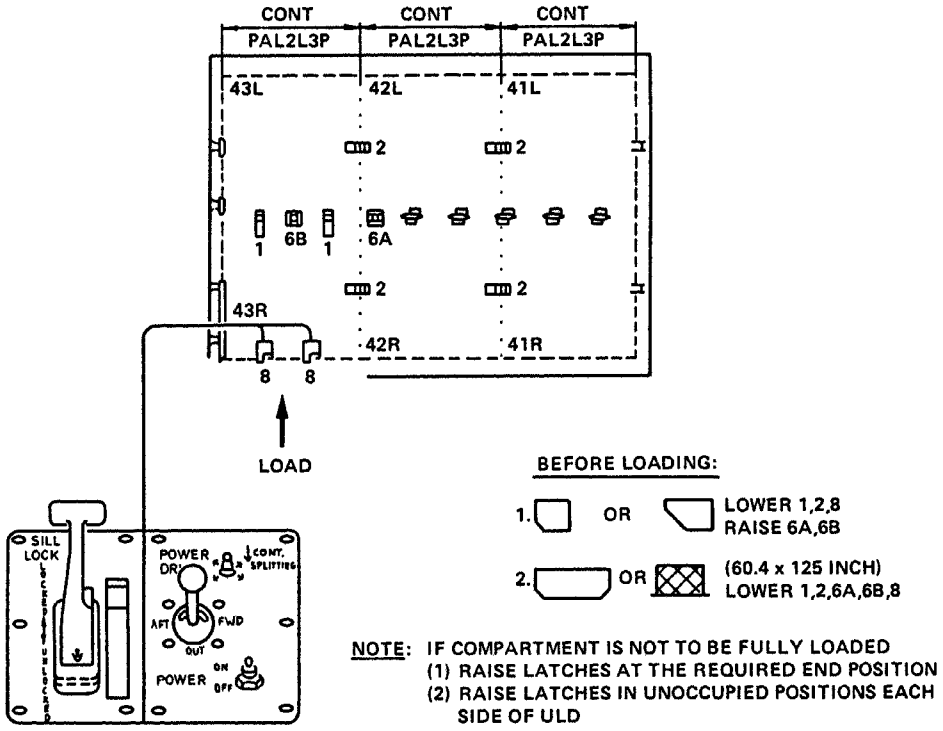
(1) REPEAT STEPS B(1) THRU B(6)

– RAISE LATCHES 8
– SET "POWER" SWITCH TO "OFF"
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CYC0 26

Powered Unloading - AFT Cargo Compartment
Figure 041

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES




NOTE: IF COMPARTMENT IS NOT TO BE FULLY LOADED
(1) RAISE LATCHES AT THE REQUIRED END POSITION
(2) RAISE LATCHES IN UNOCCUPIED POSITIONS EACH SIDE OF ULD

A. CONTAINER: HALF/FULL WIDTH

NOTE: WHEN LOADING HALF WIDTH CONTAINERS, LOAD LEFT–HAND ROW (L) FIRST.

(1) PUSH CONTAINER INTO POSITION
(2) LOCK IN POSITION BY RAISING LATCHES
(3) REPEAT (1) AND (2) UNTIL ALL POSITIONS ARE LOADED

B. PALLET: 60.4 x 125 INCH (2L3P)

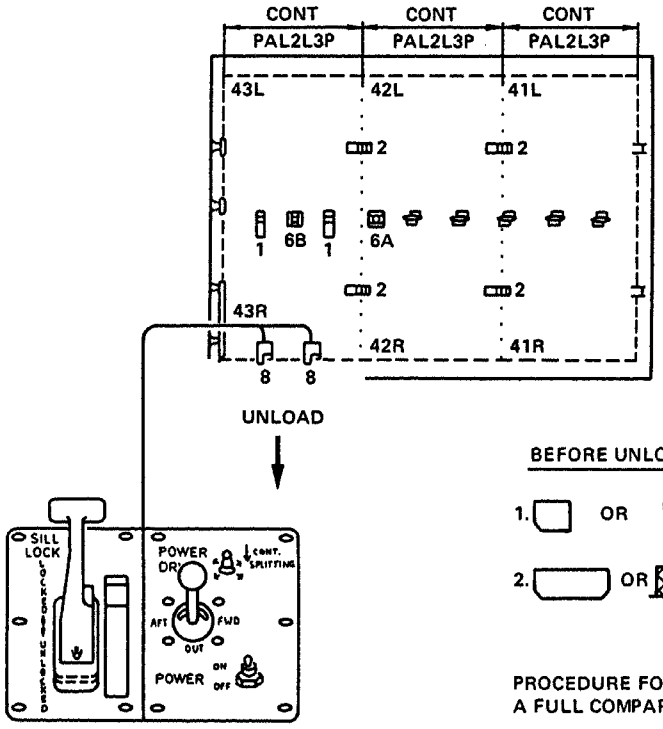
(1) REPEAT A(1) THRU A(3)

– RAISE LATCHES 8
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 DAC0 22

Manual Loading - AFT Cargo Compartment
Figure 042

– OPEN COMPARTMENT DOOR
– OPEN CONTROL PANEL DOOR
– SET UP LATCHES




BEFORE UNLOADING:

1. OR LOWER 8

2. OR (60.4 x 125 INCH: 2L3P) LOWER 8

PROCEDURE FOR UNLOADING
A FULL COMPARTMENT

A. CONTAINER: HALF WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) CONTAINER AT POSITION 43R – MOVE FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT CONTAINER IN RIGHT–HAND ROW (R)
(4) MOVE CONTAINER TO LINE UP WITH DOOR–WAY
(5) REPEAT (1) THRU (4) TO UNLOAD RIGHT–HAND ROW (R)
(6) LOWER LATCHES 1 AND OVERRIDABLE SPLITTER 6B
(7) MOVE CONTAINER FROM POSITION 43L TO 43R
(8) REPEAT (1),(2)
(9) LOWER LATCHES AT NEXT CONTAINER IN LEFT–HAND ROW
(10) REPEAT (4),(7),(1),(2) AND (9) UNTIL COMPARTMENT IS EMPTY

B. CONTAINER: FULL WIDTH

(1) REPEAT A(1)
(2) CONTAINER AT POSITION 43L/R – MOVE FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT CONTAINER
(4) REPEAT (A(4)
(5) REPEAT A(1), B(2), B(3), A(4)

C. PALLET: 60.4 x 125 INCH (2L3P)

(1) REPEAT B(1) THRU B(5)

– RAISE LATCHES 8
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 DCC0 22

Manual Unloading - AFT Cargo Compartment
Figure 043

# SEMI-AUTOMATIC CARGO LOADING SYSTEM - DESCRIPTION AND OPERATION

## 1. General

(Ref. Fig. 001)

The FWD and AFT cargo compartments are equipped with similar, independant semi-automatic cargo loading systems which are designed to handle pallets and containers (unit load devices). The cargo loading systems are controlled from separate control panels installed near the cargo compartment doors. Each cargo loading system can be operated by one man. In the event of a power failure or a malfunction, manual loading/unloading of the unit load devices (ULDs) is possible. Movement of ULDs to and from the required loading position is controlled from a joystick mounted on the control panel. Electrical impulses are fed from the control panel via a control box to the appropriate power drive units which, in turn convey the ULD in the required direction. When a ULD is located in the required loading position, it is secured in place by manually operated latches. Raising of the latching element actuates a limit switch to electrically isolate the associated power drive unit located below the ULD. Movement of the joystick to the center-neutral position will also stop the drive unit.

The cargo loading system components can be classified into three groups:

- Conveyance components
- Guidance and latching components
- Control components

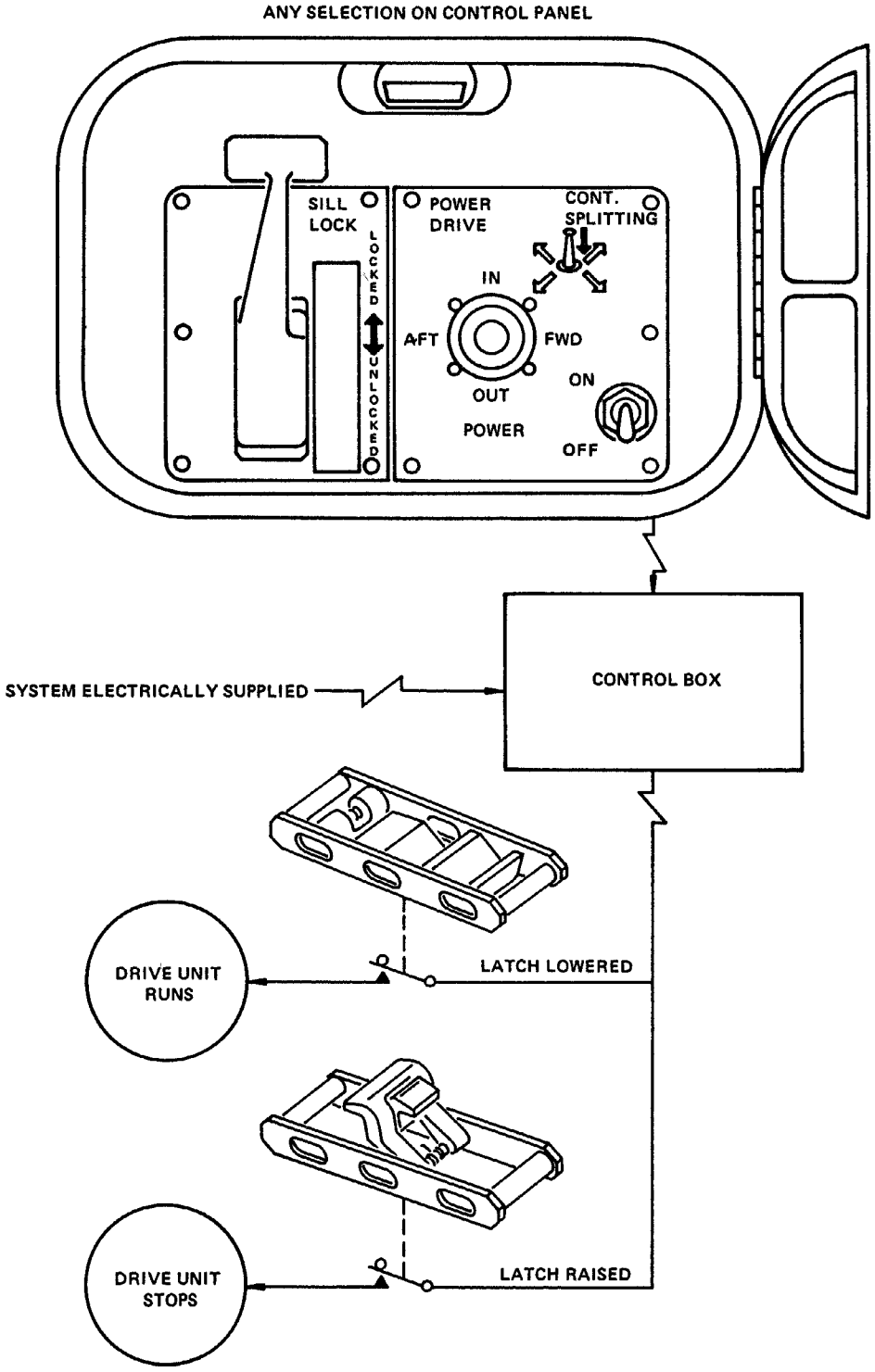
The conveyance components comprise ball mats, ball strips, roller tracks and power drive units. Ball mats and ball strips are fitted in the door area to permit movement of ULDs in both lateral and longitudinal directions. In addition, ball mats are also fitted in the AFT cargo compartment between STA3408/FR63 and STA3567/FR66, to accomodate a seventh container.

The roller tracks provide movement in the longitudinal direction only. In the FWD cargo compartment six rows of roller tracks are fitted aft of the ball mats, in the AFT cargo compartment the roller tracks are fitted forward of the ball mats.

Transfer of the ULDs to and from their loading positions is by electrically controlled power drive units. Pallets are conveyed singly and containers singly or in pairs. Control of the power drive units is accomplished through the control components. During transfer of ULDs, a maximum of four power drive units operate under load at any one time. All power drive units are interchangeable both within a cargo compartment and between FWD and AFT compartments.

Mechanical guides are fitted in the ball mat area and in the cargo compartment to ensure correct alignment of ULDs during loading and unloading. Manually operated latches secure the ULDs in position during transportation. The latching is arranged to accommodate a mixed load of pallets and containers.

The control components comprise a control panel, control box, circuit breaker panel and limit switches which control the power drive units of the cargo loading system.

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Control System - Schematic
Figure 001

2. Component Location

A. FWD Compartment
(Ref. Fig. 002)

R **ON A/C 105-200,

(Ref. Fig. 003)

R **ON A/C 101-104,

(Ref. Fig. 004)

R **ON A/C 101-200,

(Ref. Fig. 005)

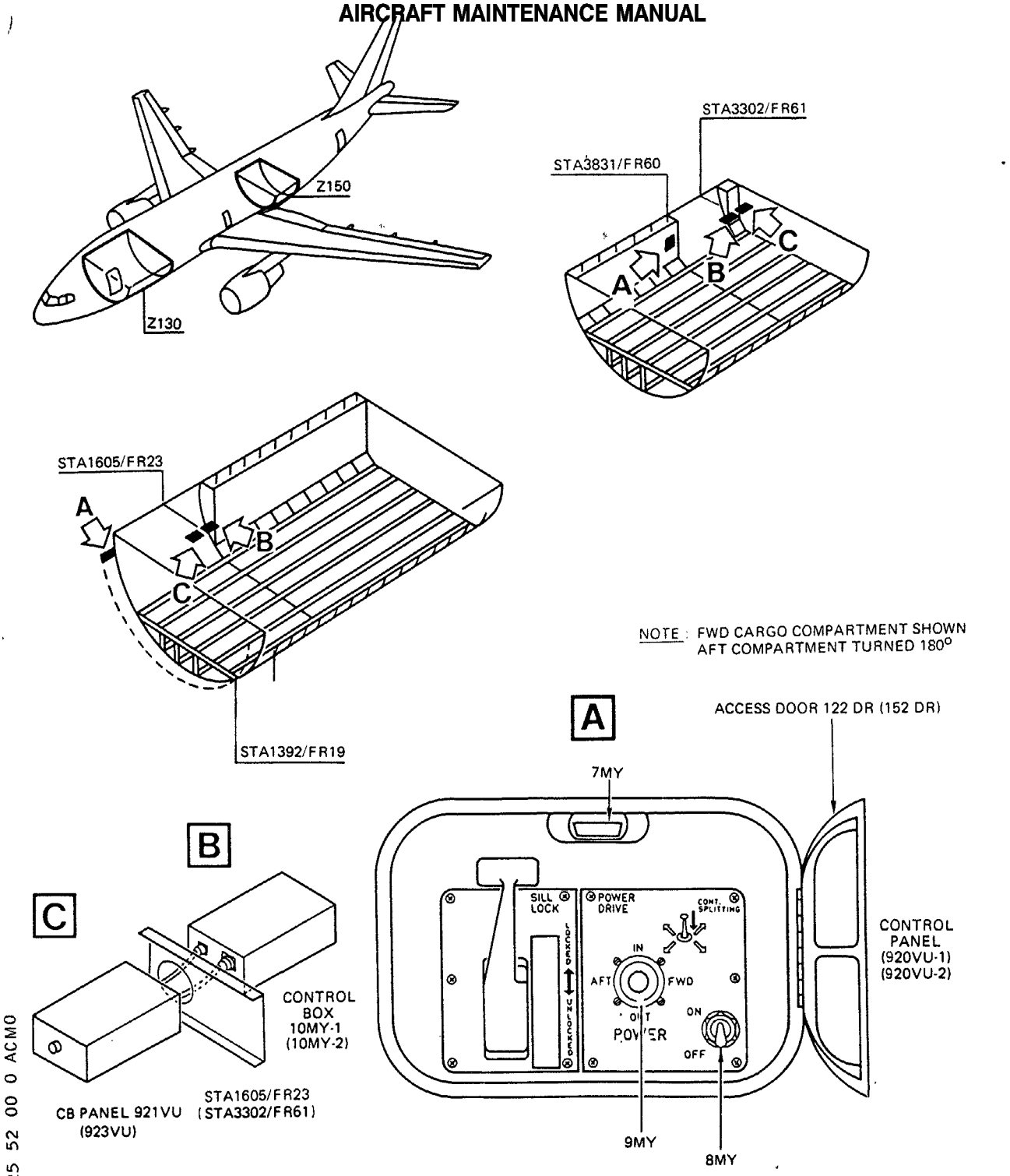
| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 22MY1 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY1 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY3 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY5 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 23MY7 | DRIVE UNIT-POWER | | 131 | 811 | 25-52-26 |
| 22MY2 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY2 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY4 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY6 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 23MY8 | DRIVE UNIT-POWER | | 132 | 811 | 25-52-26 |
| 9631 | BALL UNITS | | 131 | 811 | 25-52-23 |
| 9631 | BALL UNITS | | 131 | 811 | 25-52-23 |
| 9638 | ROLLER ASSYS | | 131 | 811 | 25-52-24 |
| 9638 | ROLLER ASSYS | | 132 | 811 | 25-52-24 |
| | GUIDE, Y-FIXED | | 131 | 811 | 25-52-46 |
| | GUIDE, Y-FIXED | | 132 | 811 | 25-52-46 |
| | GUIDE, CONTAINER RETRACTABLE | | 131 | 811 | 25-52-59 |
| 9644 | GUIDE, CONTAINER RETRACTABLE | | 132 | 811 | 25-52-59 |
| | GUIDE, XY | | 132 | 811 | 25-52-48 |
| | GUIDE, Y-RETRACTABLE | | 133 | 811 | 25-52-49 |
| | GUIDE, CONTINUOUS | | 132 | 811 | 25-52-44 |
| | GUIDE, CONTINUOUS | | 133 | 811 | 25-52-44 |
| 922VU1 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 922VU2 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 924VU1 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| 924VU2 | LATCH-DOOR SILL | | 132 | 811 | 25-52-41 |
| | LATCH, YZ-FIXED | | 131 | 811 | 25-52-44 |
| | LATCH, YZ-FIXED | | 131 | 811 | 25-52-44 |
| | LATCH, CONTAINER-FIXED | | 131 | 811 | 25-52-53 |
| | LATCH, CONTAINER-FIXED | | 132 | 811 | 25-52-53 |
| | LATCH, YZ-OVERRIDABLE | | 133 | 811 | 25-52-57 |
| 9634 | LATCH, 47-CONTAINER | | 131 | 811 | 25-52-38 |

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 9634 | LATCH, 47-CONTAINER | | 132 | 811 | 25-52-38 |
| 9635 | LATCH 19/19-PALLET | | 131 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 131 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 132 | 811 | 25-52-36 |
| 9635 | LATCH 19/19-PALLET | | 132 | 811 | 25-52-36 |
| 9637 | LATCH 19-PALLET | | 131 | 811 | 25-52-35 |
| 9637 | LATCH 19-PALLET | | 132 | 811 | 25-52-35 |
| 920VU1 | CONTROL PANEL | | 122 | 122DR | |
| 9640 | JOYSTICK | 920VU1 | 122 | 122DR | 25-52-71 |
| 8MY | POWER ON/OFF SWITCH | 920VU1 | 122 | 122DR | |
| 7MY | PANEL LIGHT | 920VU1 | 122 | 122DR | |
| 9632 | CONTROL BOX | | 132 | 811 | 25-52-69 |
| 921VU1 | CIRCUIT BREAKER PANEL | | 132 | 811 | |
| 11MY | SWITCH, LIMIT | | | 811 | |
| thru | | | | | |
| 19MY | | | | | |
| 21MY | SWITCH, LIMIT | | | 811 | |

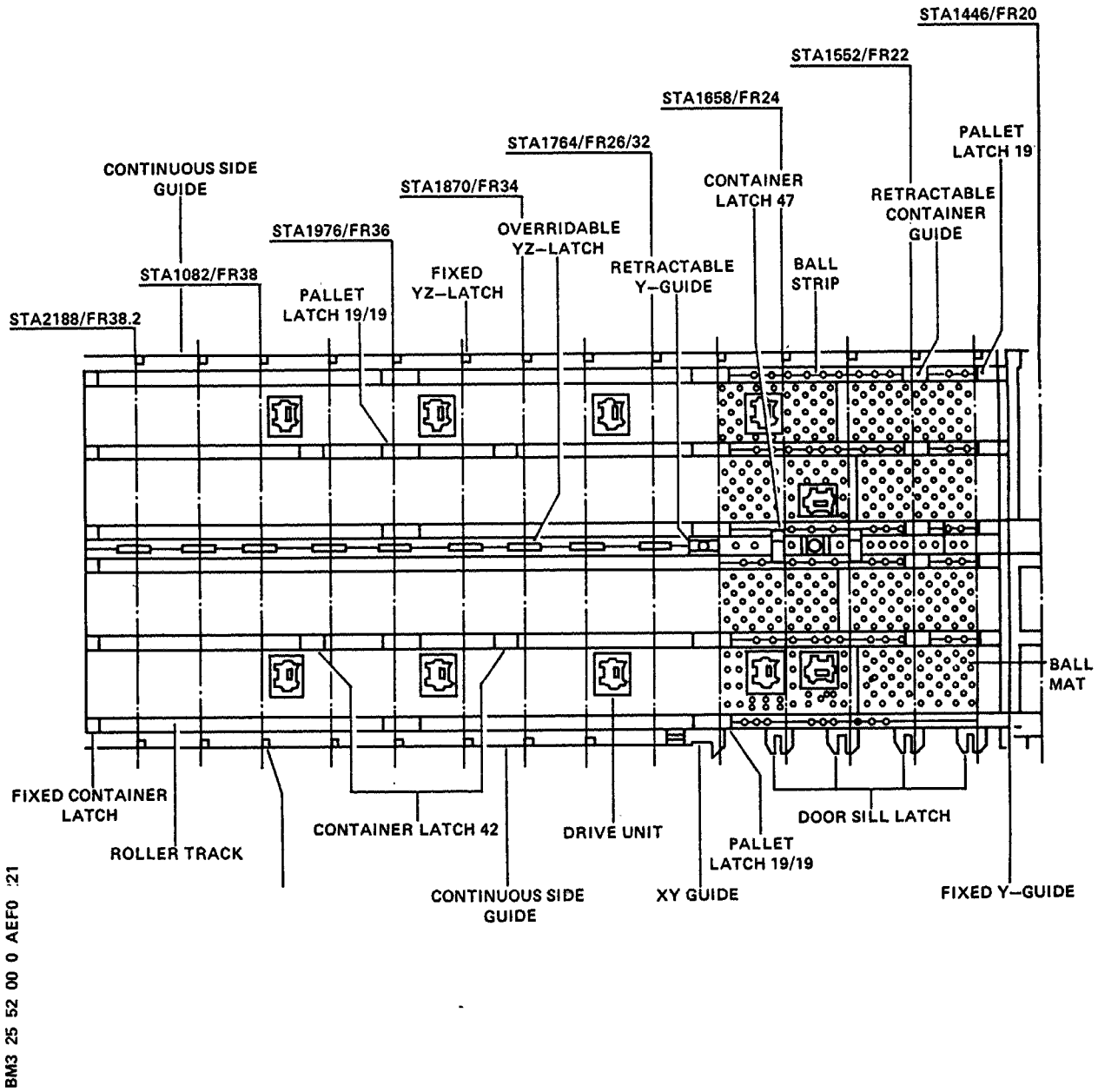
B. AFT Compartment
(Ref. Fig. 006)
(Ref. Fig. 007)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 512MY5 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY6 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY3 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY4 | DRIVE UNIT-POWER | | 151 | 812 | 25-52-26 |
| 512MY1 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 512MY2 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 510MY1 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 510MY2 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 523MY2 | DRIVE UNIT-POWER | | 152 | 812 | 25-52-26 |
| 523MY1 | DRIVE UNIT-POWER | | 162 | 812 | 25-52-26 |
| 9649 | BALL UNITS | | 151 | 812 | 25-52-23 |
| 9649 | BALL UNITS | | 152 | 812 | 25-52-23 |
| 9649 | BALL UNITS | | 161 | 812 | 25-52-23 |
| 9653 | ROLLER ASSYS | | 151 | 812 | 25-52-24 |
| 9653 | ROLLER ASSYS | | 152 | 812 | 25-52-24 |
| | GUIDE, X-RETRACTABLE | | 151 | 812 | 25-52-32 |
| | GUIDE, Y-FIXED | | 151 | 812 | 25-52-46 |
| | GUIDE, XY | | 151 | 812 | 25-52-48 |
| 924VU3 | LATCH-DOOR SILL | | 152 | 812 | 25-52-41 |
| 924VU4 | LATCH-DOOR SILL | | 152 | 812 | 25-52-41 |
| | ROLLER, DOOR SILL | | 152 | 812 | |
| | GUIDE, Y-RETRACTABLE | | 151/ 152 | 812 | 25-52-49 |

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| | LATCH, YZ-FIXED | | 151 | 812 | 25-52-44 |
| | LATCH, YZ-FIXED | | 152 | 812 | 25-52-44 |
| | LATCH, YZ-FIXED | | 162 | 812 | 25-52-44 |
| | GUIDE, X-CONTINUOUS | | 152 | 812 | 25-52-44 |
| 9651 | LATCH, 42-CONTAINER | | 151/152 | 812 | 25-52-34 |
| 9651 | LATCH, 42-CONTAINER | | 151/152 | 812 | 25-52-34 |
| 9667 | LATCH, 42-PALLET | | 151/152 | 812 | 25-52-33 |
| 9652 | LATCH, 47-CONTAINER | | 151/152 | 812 | 25-52-38 |
| | GUIDE, Y-RETRACTABLE | | 151/152 | 812 | 25-52-49 |
| | LATCH, CONTAINER FIXED | | 151 | 812 | 25-52-53 |
| | LATCH, CONTAINER FIXED | | 151 | 812 | 25-52-53 |
| | LATCH, CONTAINER FIXED | | 151 | 812 | 25-52-53 |
| | LATCH, CONTAINER FIXED | | 152 | 812 | 25-52-53 |
| | LATCH, CONTAINER FIXED | | 152 | 812 | 25-52-53 |
| | LATCH, CONTAINER FIXED | | 152 | 812 | 25-52-53 |
| | GUIDE, X-RETRACTABLE | | 152 | 812 | 25-52-32 |
| 920VU2 | CONTROL PANEL | | 152 | 152DR | |
| 9655 | JOYSTICK | 920VU2 | 152 | 152DR | 25-51-71 |
| 8MY | POWER ON/OFF SWITCH | 920VU | 152 | 152DR | |
| 507MY | PANEL LIGHT | 920VU | 152 | 152DR | |
| 9650 | CONTROL BOX | | 152 | 812 | 25-52-69 |
| 923VU | CIRCUIT BREAKER PANEL | | 152 | 812 | |
| 511MY | SWITCH, LIMIT | | | 812 | |
| 513MY thru 518MY | SWITCH, LIMIT | | | 812 | |
| 521MY | SWITCH, LIMIT | | | 812 | |
| 522MY | SWITCH, LIMIT | | | 812 | |




Component Location - Cargo Compartments
Figure 002



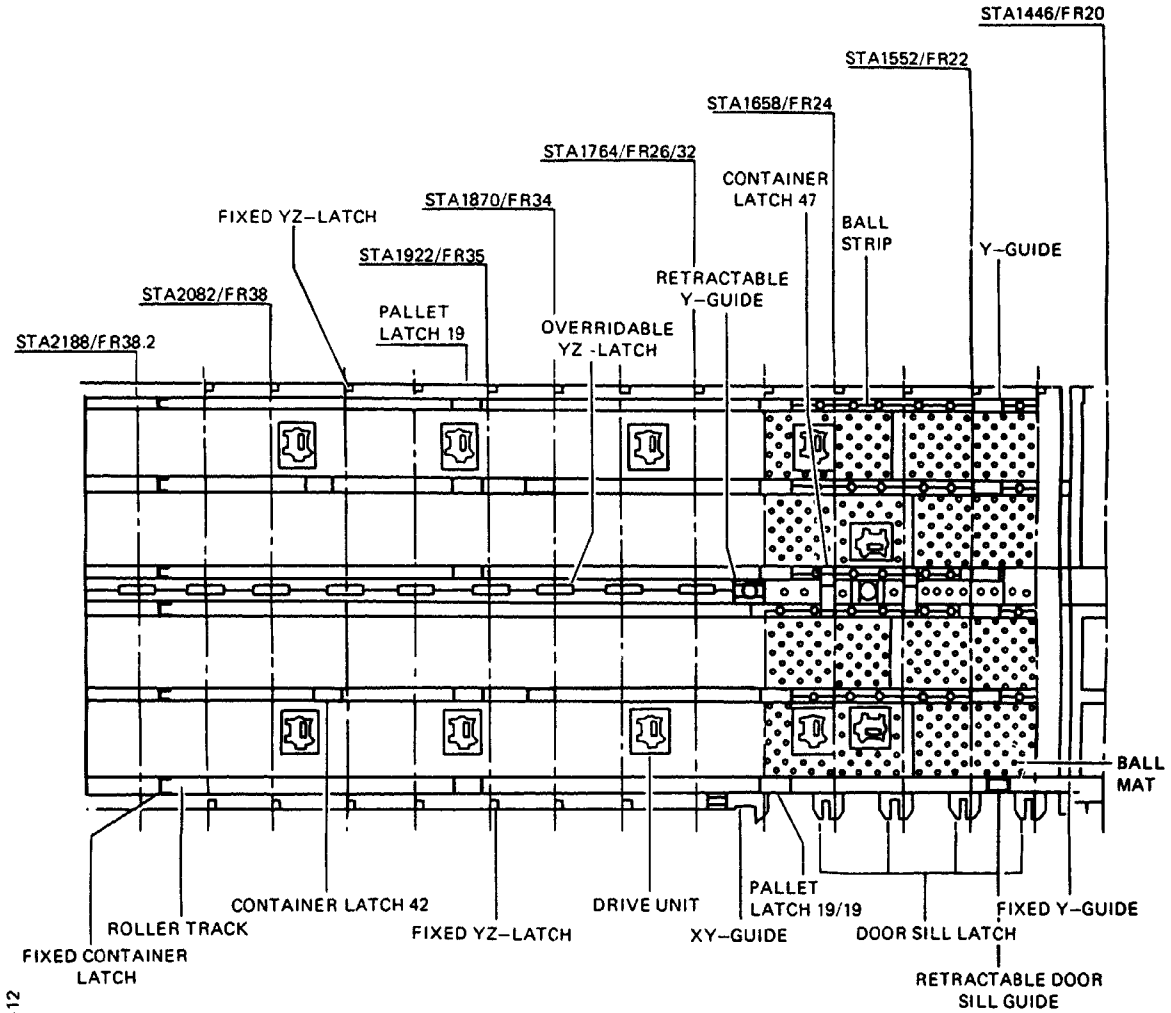

Component Location - FWD Compartment
Mechanical Components
Figure 003

R EFFECTIVITY: 105-200,

PIA



Printed in France




Component Location - FWD Compartment
Mechanical Components
Figure 004

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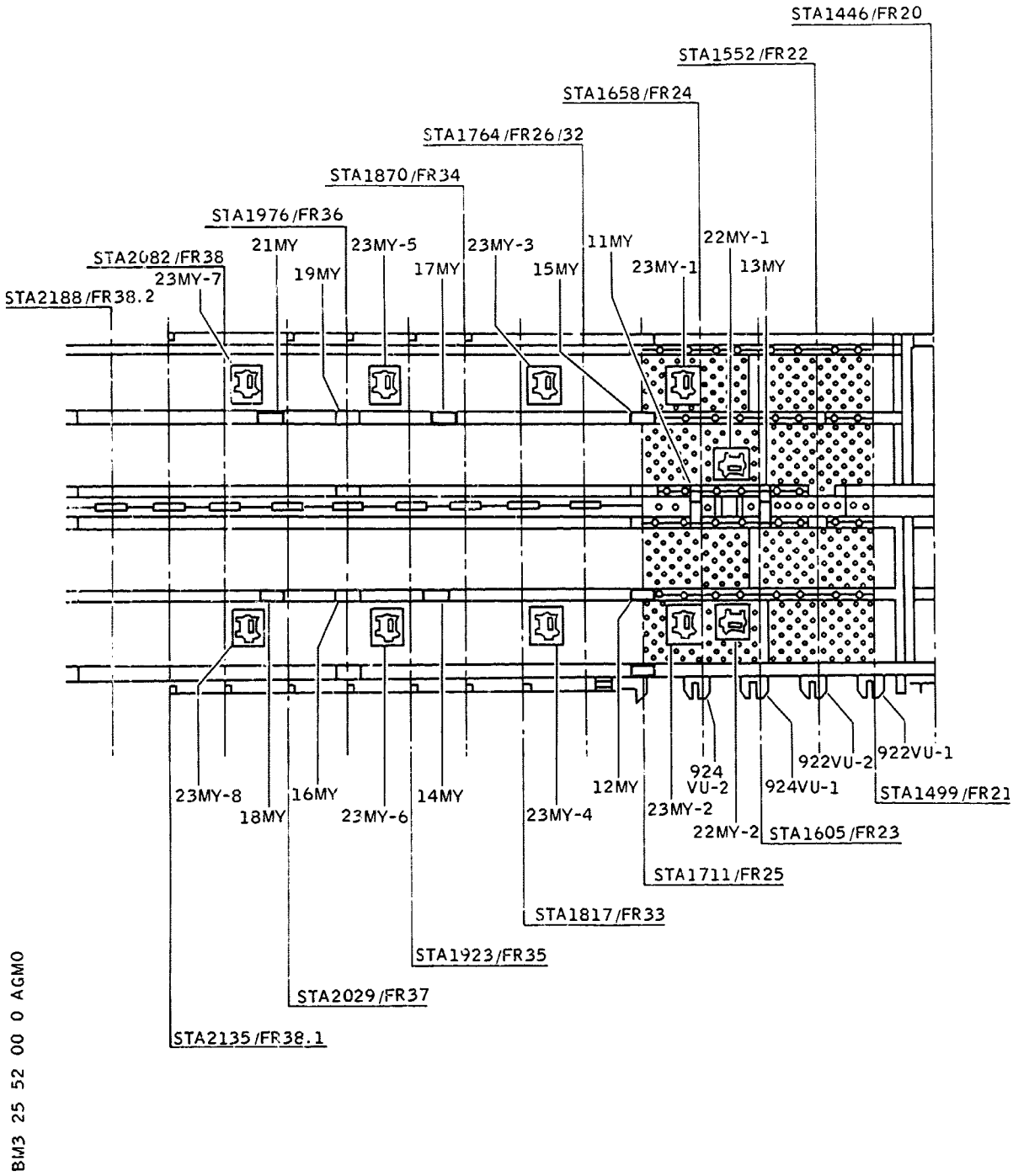
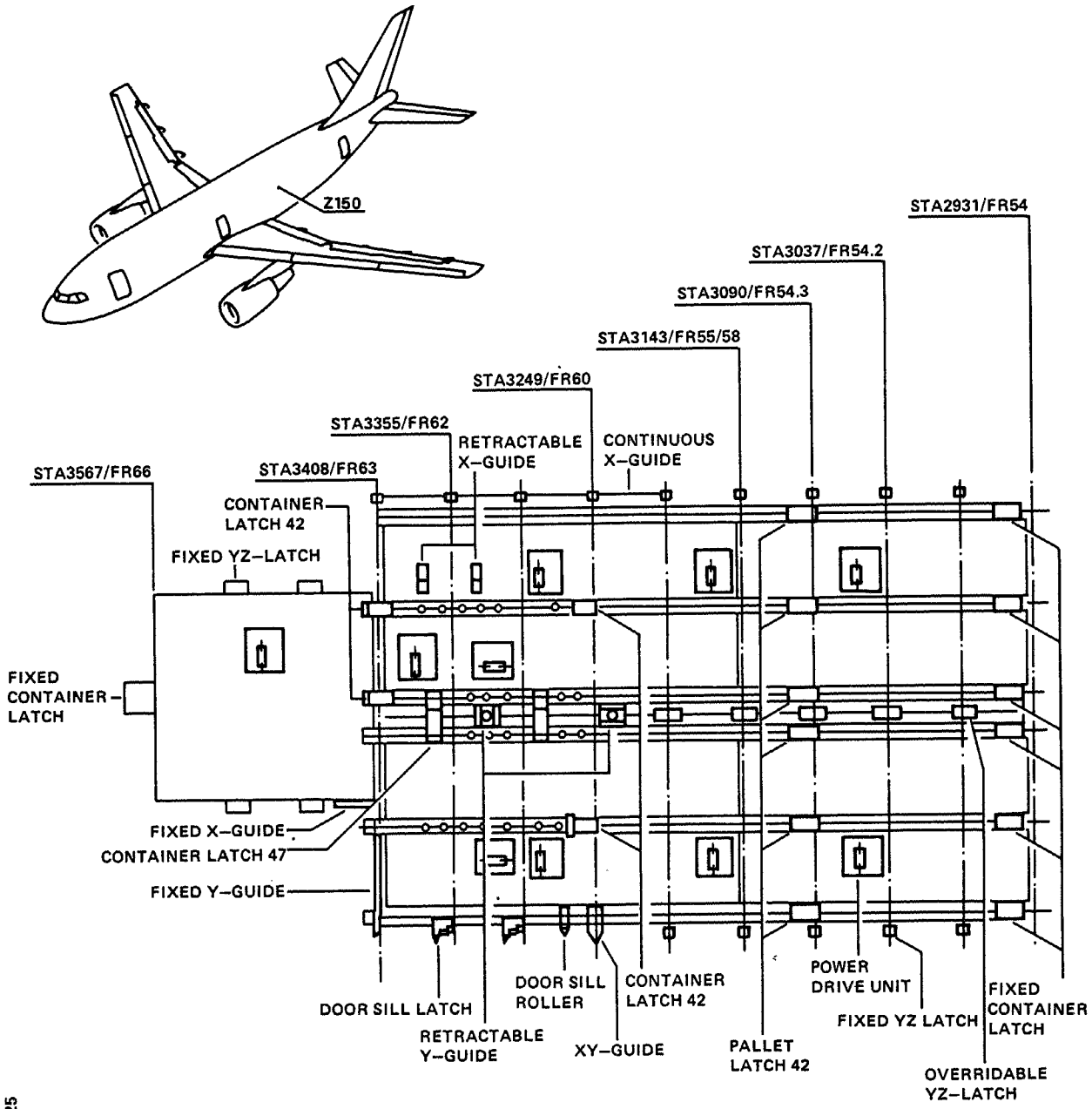
PIA



Printed in France




Component Location - FWD Compartment
Electrical Components
Figure 005

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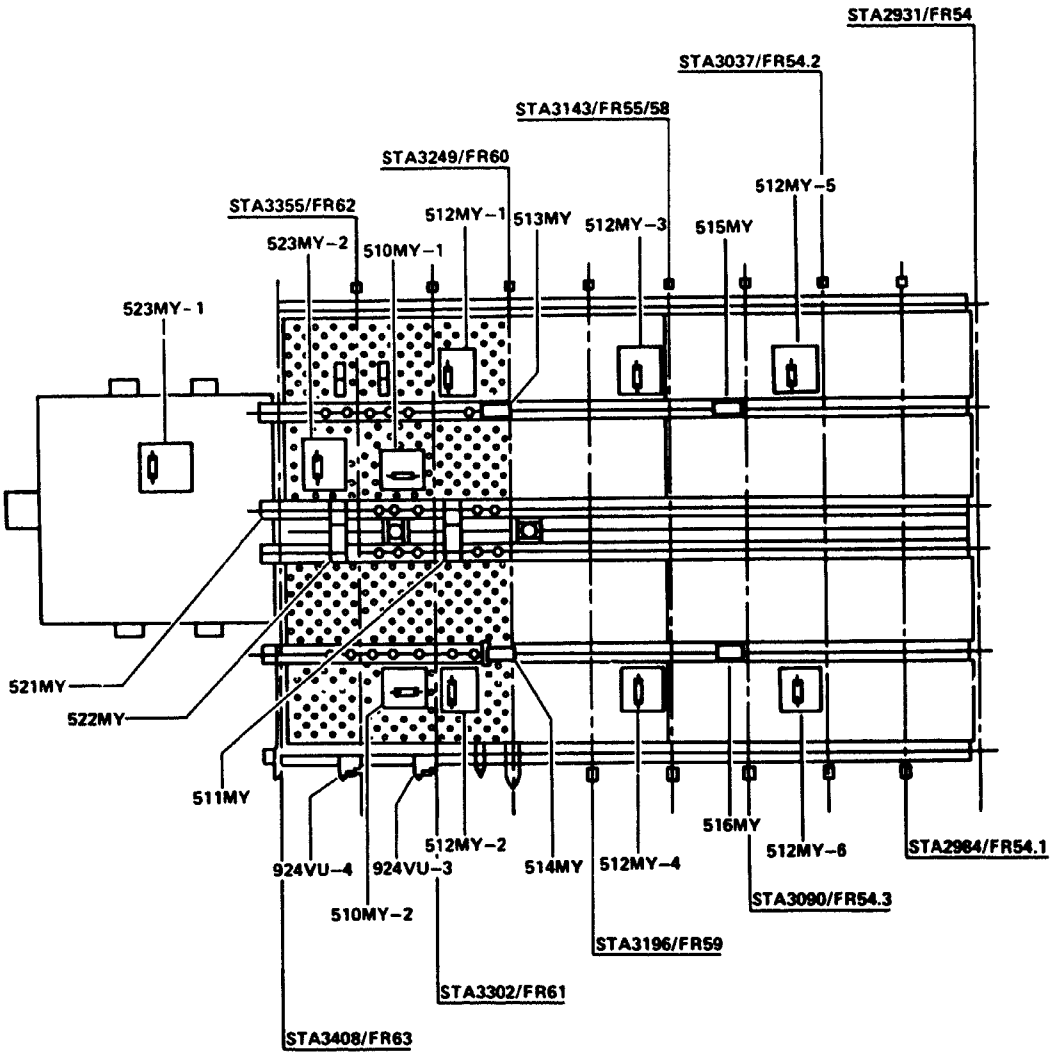
Component Location-AFT Compartment
Mechanical Components
Figure 006

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Component Location-AFT Compartment
Electrical Components
Figure 007

3. Description

NOTE: The cargo conveyance systems in the FWD and AFT cargo compartments contain similar components and operate in a similar manner. Therefore only the FWD cargo compartment is described. Differences between FWD and AFT cargo compartments are noted where applicable.

A. Cargo Conveyance System

The cargo conveyance system consists of ball mats, ball strips, roller assemblies and electrically operated power drive units.

(1)Ball Mats and Ball Strips

(Ref. Fig. 008)

Ball mats and ball strips are located in the FWD cargo compartment between STA1446/FR20 and STA1711/FR25, in the AFT cargo compartment between STA3249/FR60 and STA3408/FR63. The ball mats/strips extend across the full width of the cargo compartment. An additional ball mat is positioned in the bulk compartment area between STA3408/FR63 and STA3567/FR66, and approximately 800 mm (32 in.) either side of the aircraft center line.

Ball mats consist of light alloy sandwich-section plates which house ball unit assemblies. The ball strips consist of light alloy plate which house ball unit assemblies. The ball mats are positioned between the roller tracks and are screwed to the structure. Ball strips are positioned in the roller tracks and are secured in place with screws.

(a)Ball unit assemblies

Each ball unit consists of a ball mounted in a bearing shell which, in turn, is supported within a housing by a compression spring. The ball and bearing shell are retained in the housing by a top cover, which also acts as a dirt shield.

(Ref. Fig. 009)

The roller track channel-sections form the longitudinal part of the cargo compartment floor structure, and are screwed to the compartment crossbeams. Free-running rollers assemblies are fitted into the roller tracks to assist the movement of, and to support ULDs.

(a)Roller assemblies

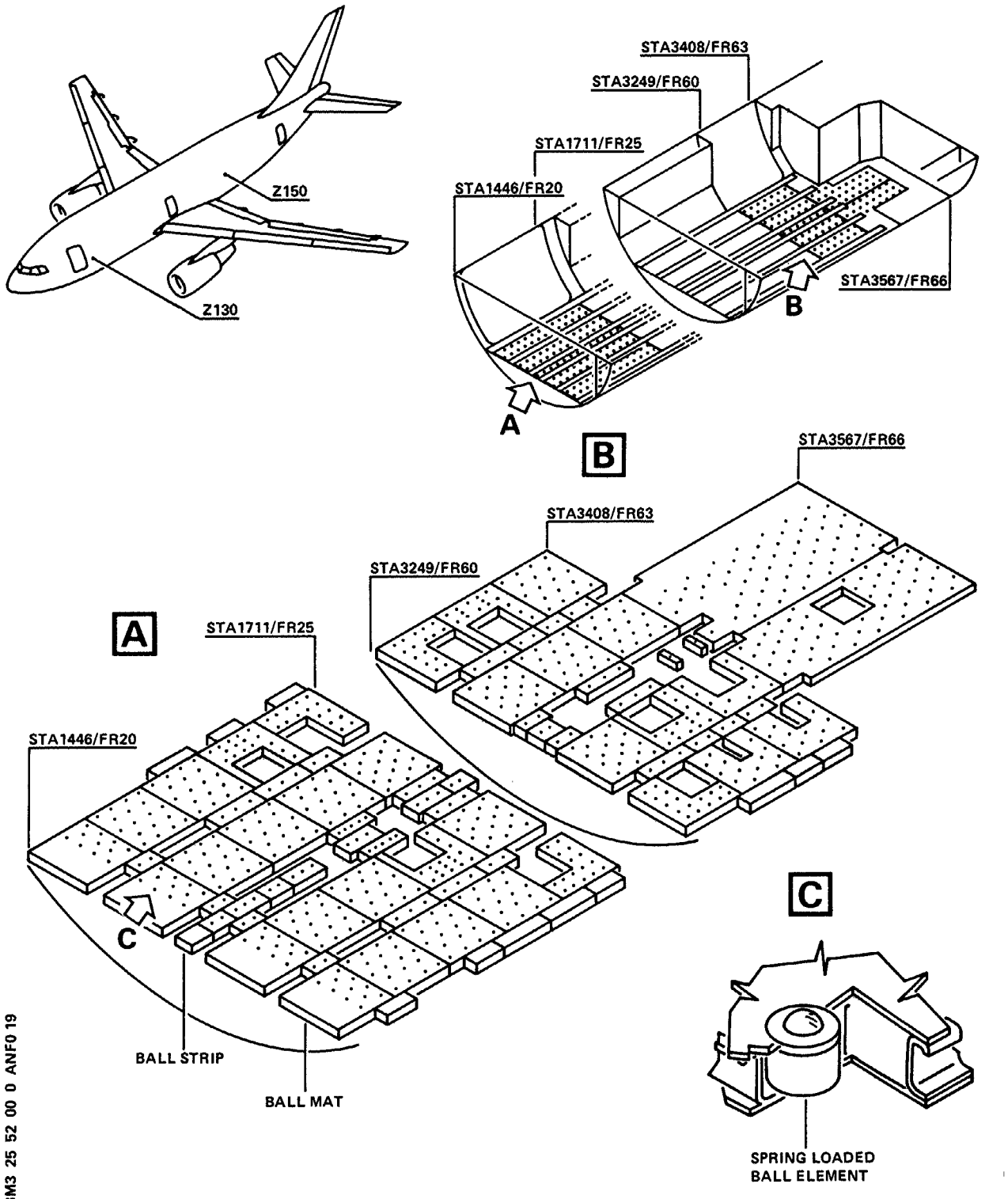
Each roller assembly consists of an aluminium tube section supported by ballraces mounted on a spindle. A shaped retaining plate is fitted to one end of the spindle to prevent the spindle rotating with the roller. The opposite end of the spindle is secured with a cotter pin.

(3)Power Drive Unit

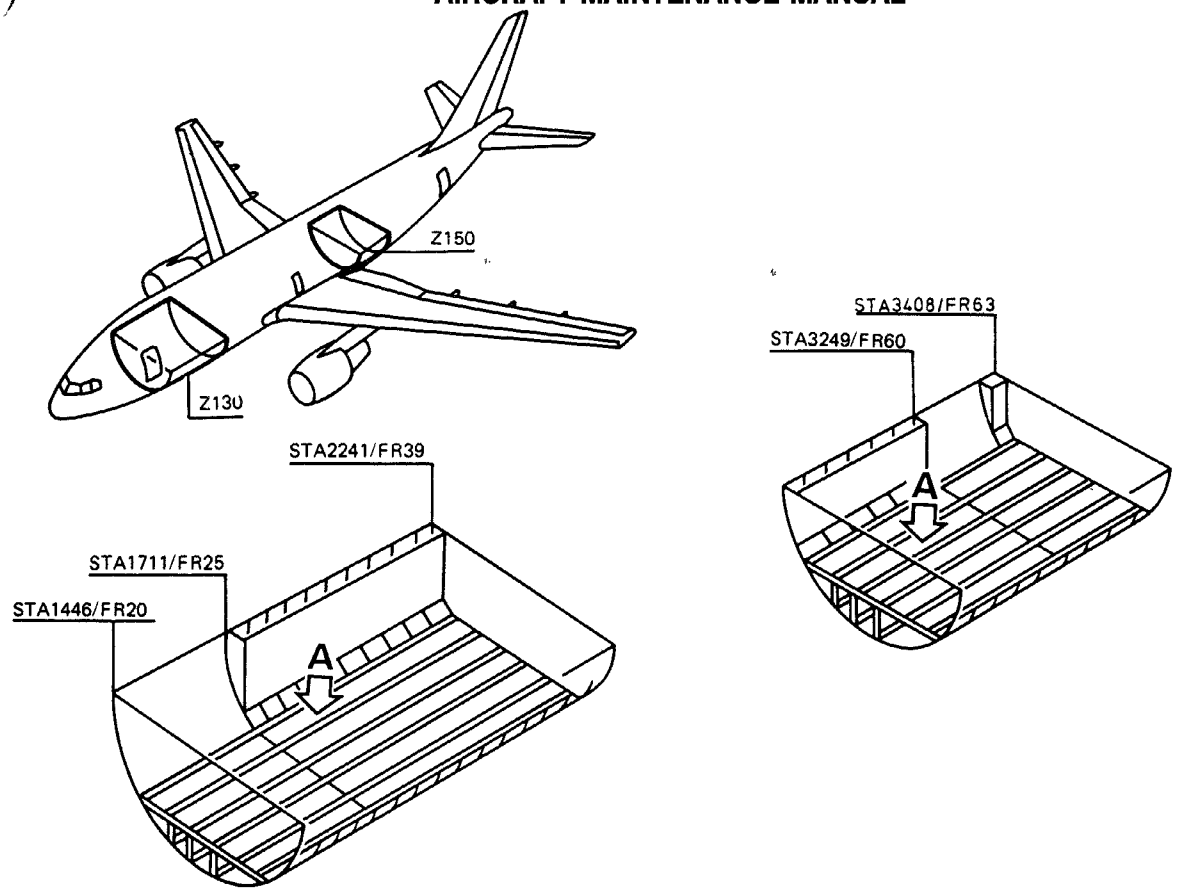
(Ref. Fig. 010)

Power drive units are located in two rows within the FWD cargo compartment at STA1605/FR23, STA1658/FR24, STA1817/FR33, STA1923/FR35 and STA2082/FR38.

In the AFT cargo compartment the power drive units are positioned at STA3037/FR54.2, STA3143/FR55/58, STA3302/FR61, STA3355/FR62, STA3408/FR63 and STA3461/FR64. The power drive units at STA1605/FR23 and STA3355/FR62 operate in the lateral direction, all other power drive units operate in the longitudinal direction. The power drive units at STA3408/FR63 and STA3461/FR64 are associated with the seventh container position in the Bulk compartment area.

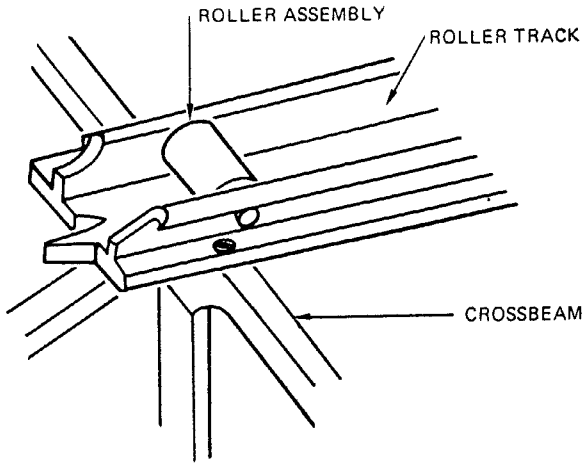



Ball Mats/Ball Units- Typical Arrangement
Figure 008




A

TYPICAL ARRANGEMENT

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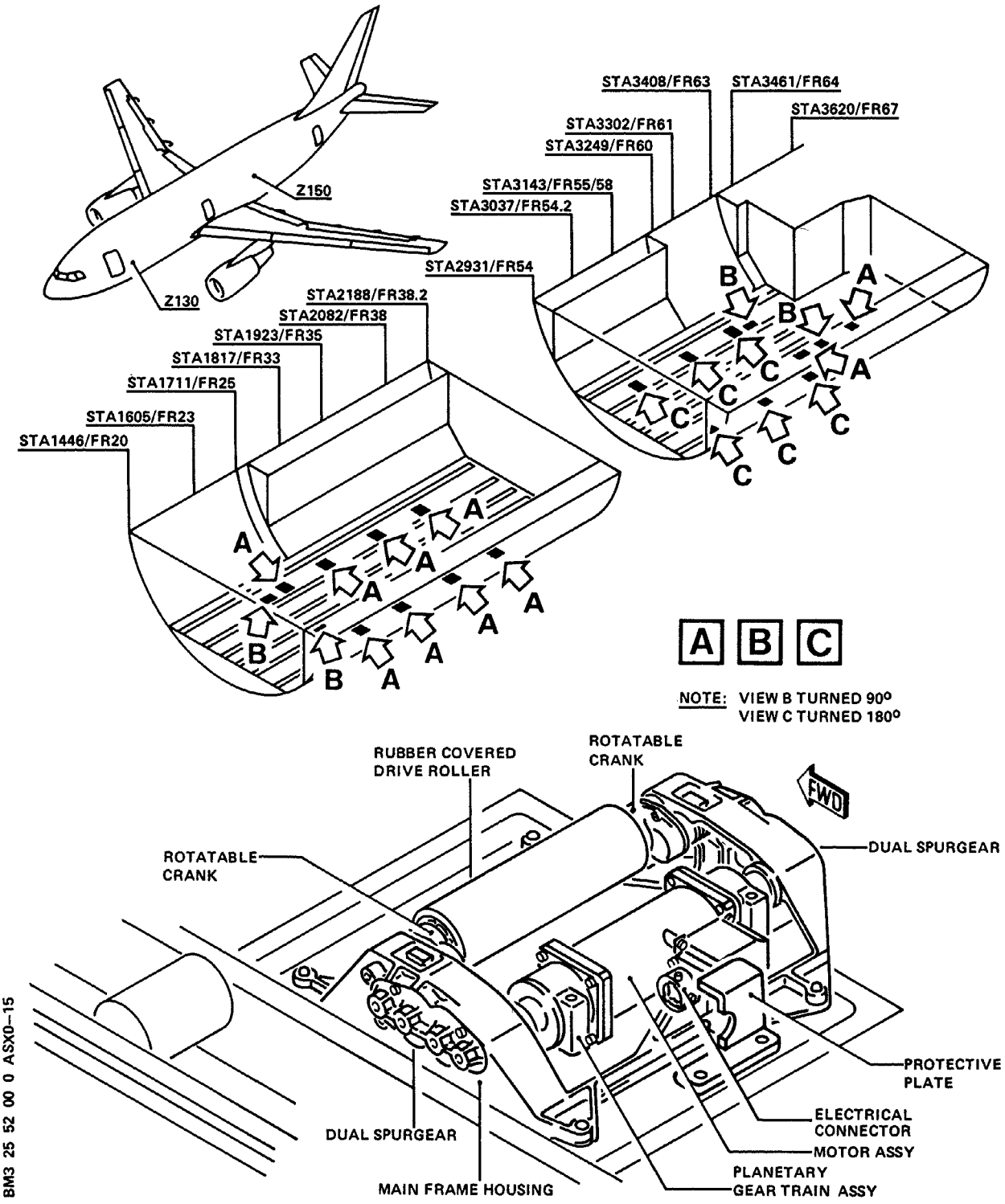
Roller Tracks - Typical Arrangement
Figure 009




Power Drive Unit - General Arrangement
Figure 010

Each power drive unit consists of a main frame housing which contains a reversible three phase 115/200 V, 400 Hz, AC motor, with a two-stage planetary gear, a dual spurgear drive and rotatable crank is installed on each side. A rubber coated drive roller is mounted between the dual spurgear drives and rotatable cranks. The main frame housing of the power drive unit is secured to a drain pan/frame assembly which in turn is secured to the floor structure between the roller tracks. An angled protective plate is secured to the drain pan to protect the electrical connector against damage.

(a)Operation

(Ref. Fig. 011)

When the motor is energised, torque is applied to each of the drive roller through the gear drives. A friction brake mounted at the last stage of the gear train provides a light drag on the roller. This causes the rotatable crank and the roller to pivot upward into its operating position, in contact with the base of the ULD, at system height.

The braking torque is such that, initially, no effective lifting force is exerted against the ULD base.

The upward arc of the rotatable crank and drive roller, through contact with the ULD, is now blocked, causing the roller to rotate.

Through this rotation an additional braking torque is applied to the roller, which results in a further upward force or contact pressure being applied against the ULD base. The result is that a conveying force is built up, setting the ULD in motion.

When the motor is de-energized, the contact pressure against the ULD decreases and the rotatable crank and drive roller pivot down to the rest position.

B. Guidance and Latching Components

The guidance and latching components comprise fixed and operable guides which align ULDs during transfer to and from loading positions, and manually operated latches for securing ULDs in their load positons. The guidance and latching components are identified by the direction in which they are effective and/or their function. To simplify the component identifications the following terms are used:

- X indicates effective in the longitudinal direction
- Y indicates effective in the lateral direction
- Z indicates effective in the vertical direction

Latches are additionally identified by the distance, in millimeters, between the locking faces, i.e. container latch 47 indicates that the distance between the locking faces is 47 mm.

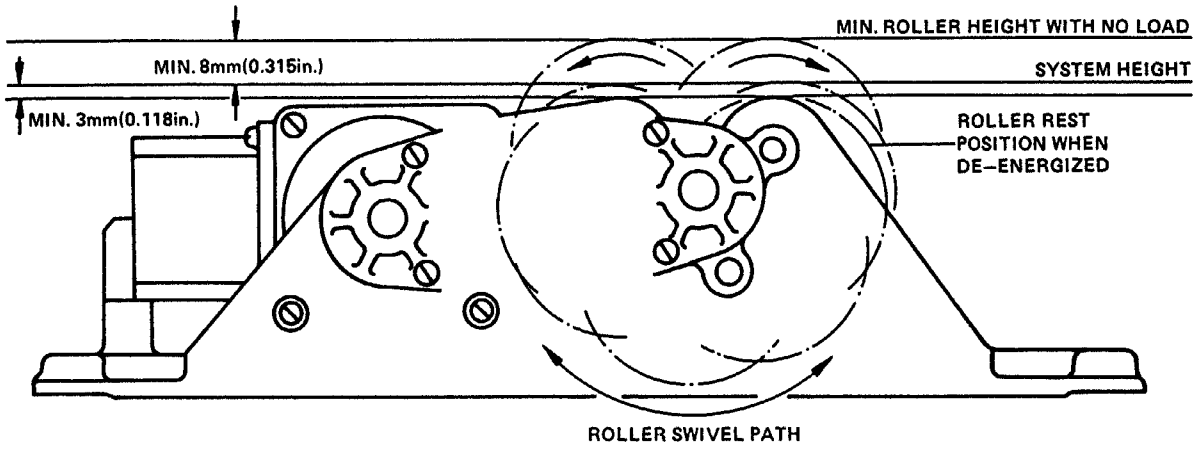
(1)Door Sill Latch

(Ref. Fig. 012)

(Ref. Fig. 013)

Four door sill latches are fitted in the FWD cargo compartment between STA1499/FR21 and STA1658/FR24. In the AFT cargo compartment two door sill latches are fitted between STA3884/FR61 and STA3937/FR62. The latches are secured to the roller tracks in the door sill area, and serve two functions

- prevent inadvertent unloading of a ULD

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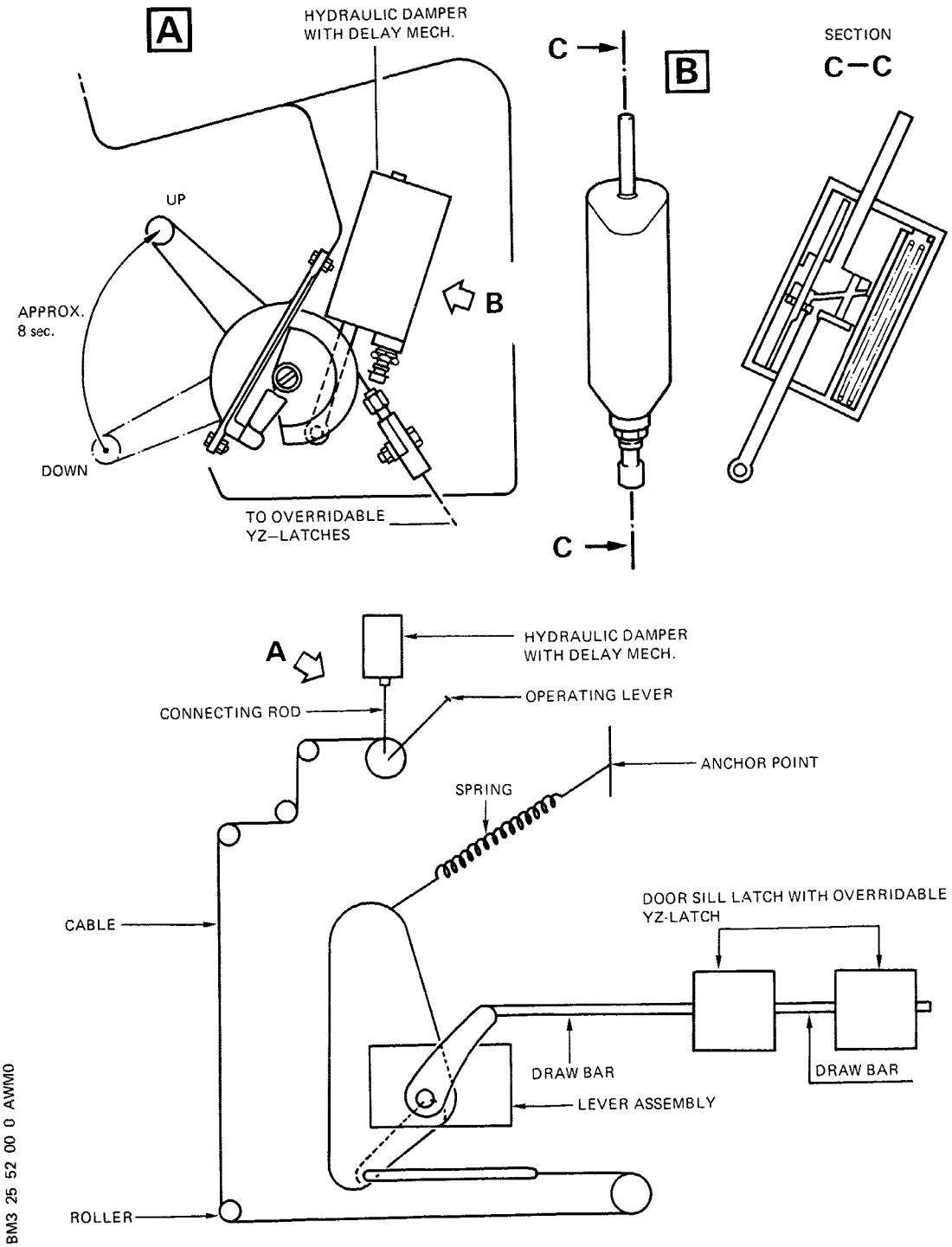
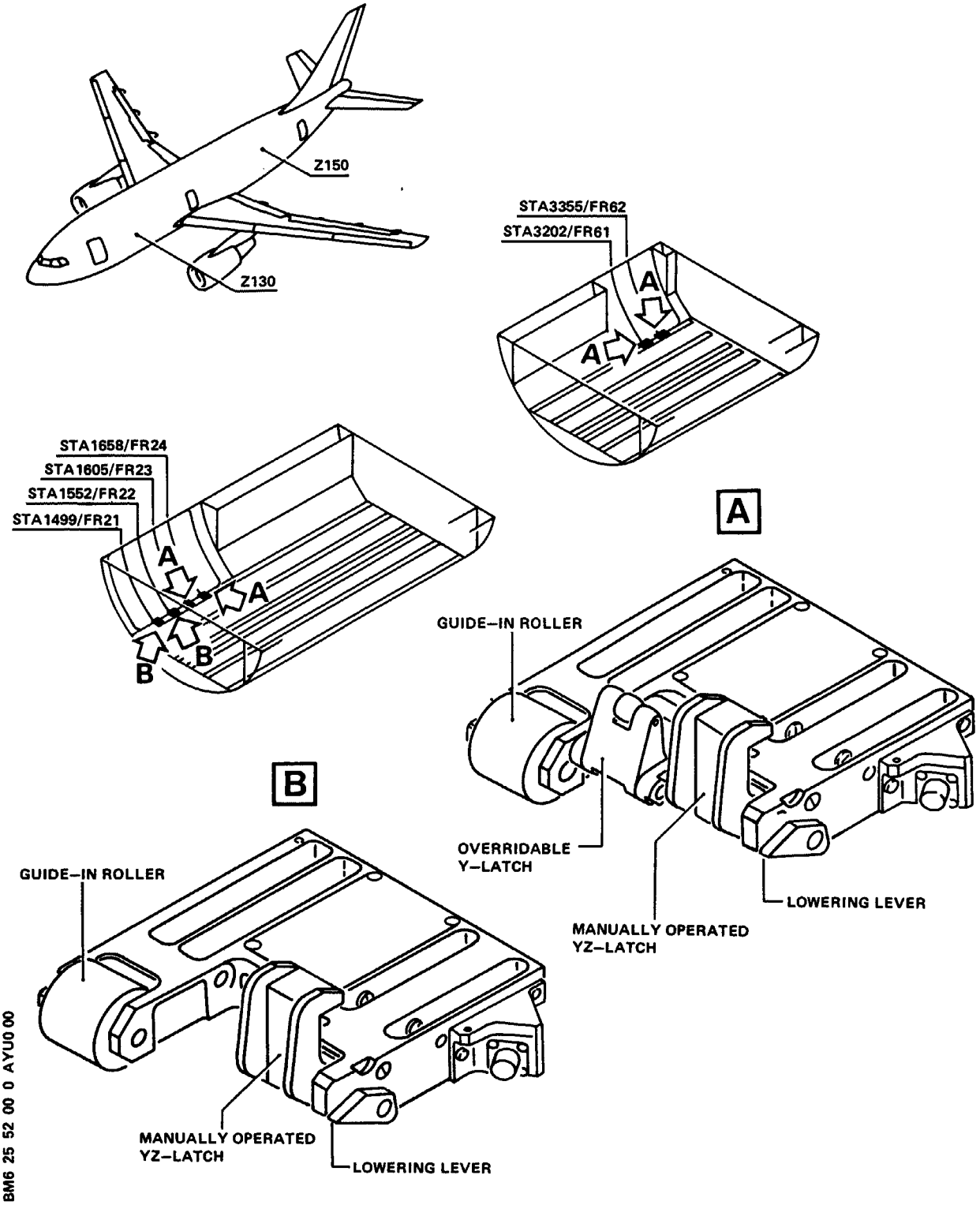
Drive Roller Movement - Schematic
Figure 011




Y-Latch - Control Schematic
Figure 012




Door Sill Latch
Figure 013

- secure a ULD in position

NOTE : As all latches are similar only one latch is described.
Each door sill latch consists of a housing, a guide-in roller, and a manually operated YZ-latch. The YZ-latch, which provides the ULD locking facility in the door area, is locked in the raised position by a spring-loaded pawl. The YZ-latch is lowered by depressing a release lever, to disengage the pawl, and manually lowering the YZ-latch.
A limit switch engages with the pawl to provide an electrical interlock which prevents the cargo compartment door closing when the YZ-latch is in the lowered position. This limit switch also electrically isolates the cargo loading system when the YZ-latch is raised. The YZ-latch is raised manually until the pawl engages, to lock the latch in position. The latches at STA1605/FR23, STA1684/FR24, STA3302/FR61 and STA3355/FR62 are additionally fitted with an overridable Y-latch.
The overridable Y-latch is overridable in the load direction only. In the unload direction the Y-latch must be lowered manually by operating a lever mounted on the cargo loading system control panel. With the lever held in the lowered position, the Y-latch remains lowered. When the lever is released, the Y-latch and the lever rise slowly to the locked position over a period of approximately 10 seconds, to allow time for the unloading of one ULD. Should the Y-latch contact the underside of a ULD during the raising period the raising will stop until the ULD clears the Y-latch, when action recommences.
The Y-latch operating lever (sill lock) in the controlpanel is connected to a draw bar via an hydraulic delay mechanism, teleflex cable and a spring tensioned lever assembly. In turn, the draw bar connects the operating linkages of the two Y-latches in tandem. Movement of the Y-latch operating lever is transmitted through the teleflex cable and draw bar to activate the Y-latch operating linkage within the door latch.
A guide-in roller is fitted to each door sill latch to prevent damage to the cargo compartment door sill and to the door sill latches during loading and unloading. This roller also compensates for any slight differences in height between the cargo compartment and the loader.

(2)Fixed Y-Guide

(a)FWD Cargo Compartment

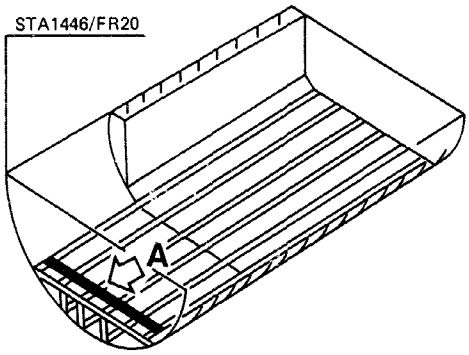
(Ref. Fig. 014)

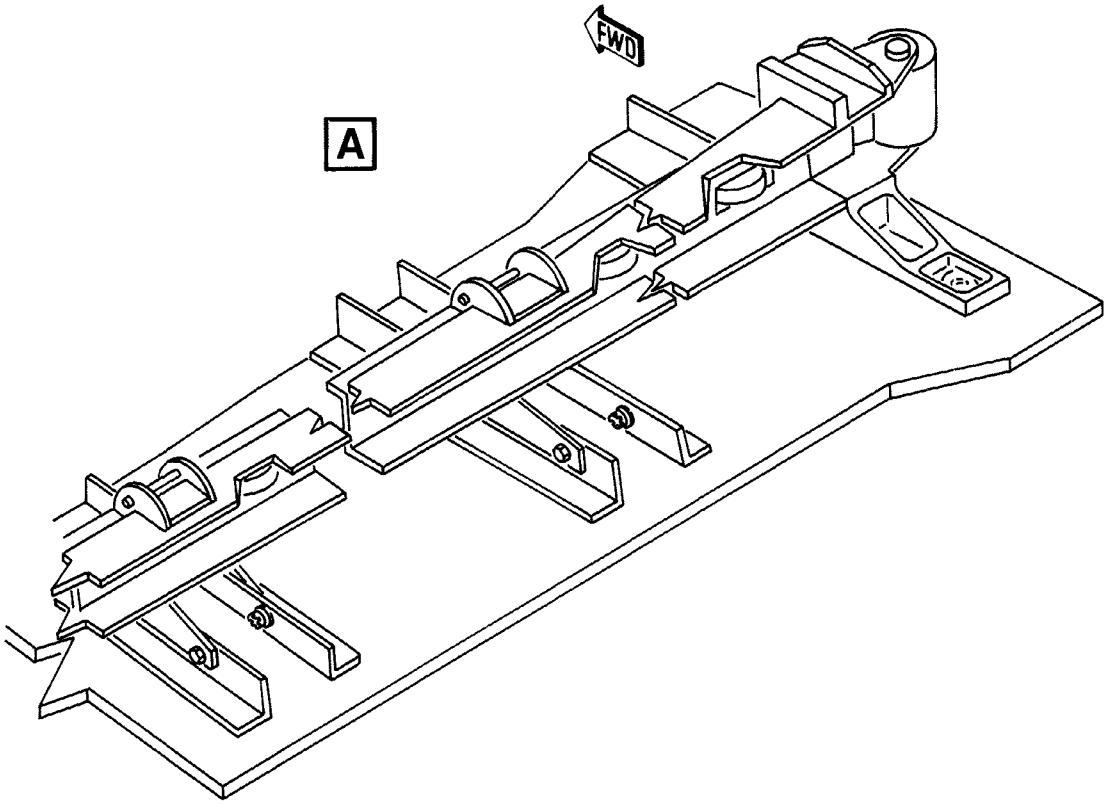
A fixed Y-guide is installed across the ball mat area at STA1446/FR20 to guide pallets in the Y-direction during loading and unloading. The guide, which comprises four interconnected sections, extends across the full width of the cargo compartment. To prevent damage to the cargo compartment door sill during loading and unloading, a guide-in roller is fitted to the right-hand end of the guide. Each section of the guide houses a series of vertically-mounted rollers which contact the side of the pallet to provide the required guidance. The guide sections are joined together by fixing clamps, which are secured to the roller tracks.

(b)AFT Cargo Compartment

(Ref. Fig. 015)

A fixed Y-guide is installed across the ball mat area at STA3408/FR63 between the first two roller tracks to guide containers in the

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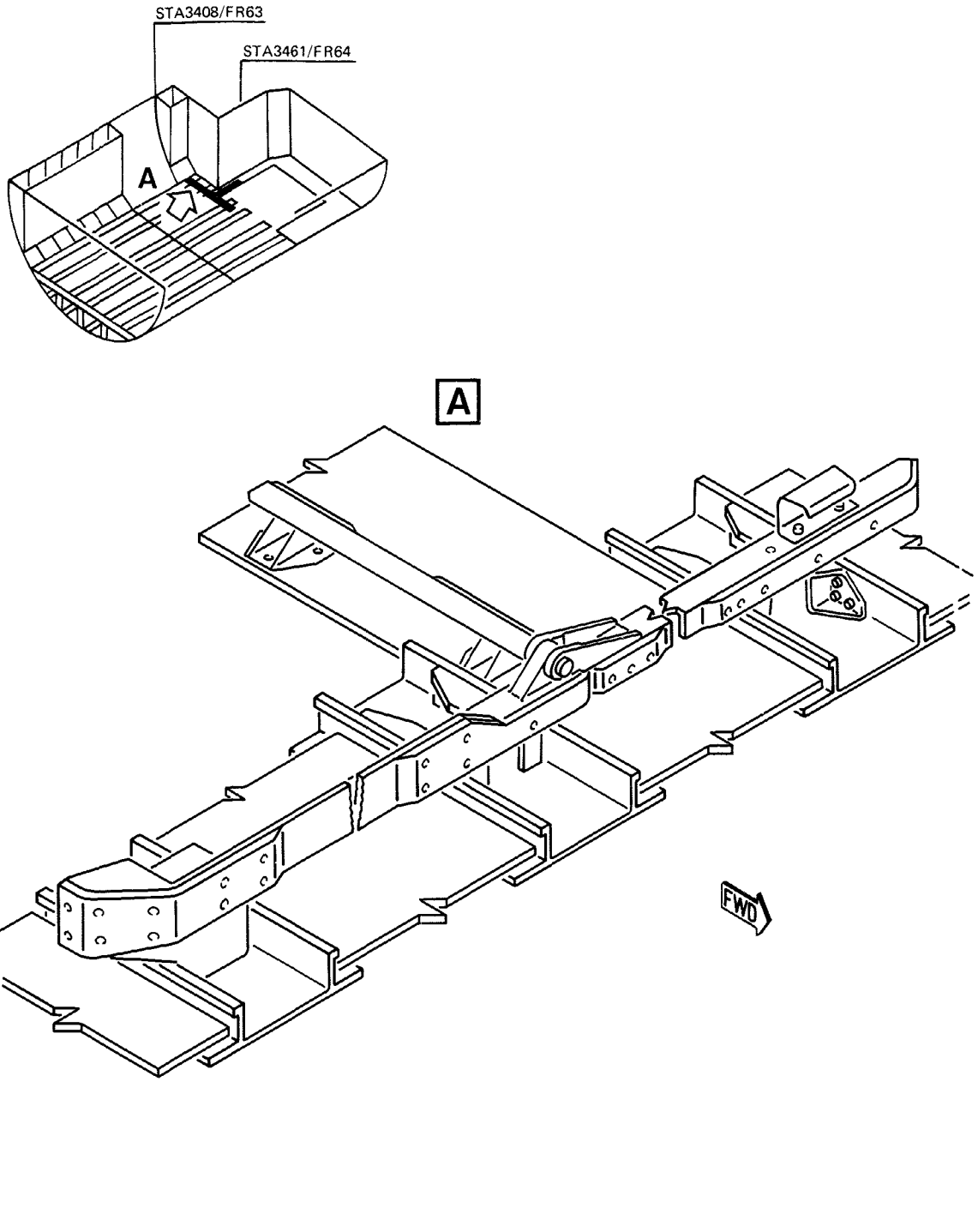
Fixed Y-Guide - FWD Compartment
Figure 014




Fixed Y-Guide - AFT Compartment
Figure 015

Y-direction during loading and unloading. The guide extends across approximately one half of the width of the cargo compartment, and is secured to the roller tracks. The Y-guide consists of one hinged section and one fixed section. The right-hand end of the fixed section projects over the door sill to protect the sill during loading and unloading. The hinged section is pivoted to the fixed section at the second roller track. The left-hand end of the hinged section is secured to the third roller track. An additional fixed side guide is installed at the second roller track between STA 3408/FR63 and STA 3461/FR64 to guide and secure containers during transport to and from the seventh loading position.

(3)XY-Guide

(Ref. Fig. 016)

(a)FWD Cargo Compartment

An XY-guide is positioned at STA1711/FR25 to guide pallets and containers in the X- and Y-directions. The guide has three vertically mounted rollers, two of which provide guidance in the X-direction; the third roller projects beyond the door frame to provide guidance in both X- and Y-directions, and protects the door sill frame.

(b)AFT Cargo Compartment

In the AFT compartment the XY-guide is located at STA3249/FR60 to align containers in the Y-direction and protect the cargo compartment door frame. The guide is secured to the roller track.

(4)Retractable Container Guide

(Ref. Fig. 017)

Five manually-operated, retractable container guides are installed across the ball mat area of the FWD cargo compartment at STA1552/FR22. The guides provide guidance for containers in the Y-direction during loading and unloading, and restrain containers in the X-direction during transport. Before loading and unloading pallets, the guides must be lowered. The operating lever for raising and lowering the guide is positioned forward of the guiding element, and is annotated 'PRESS TO UNLOCK'.

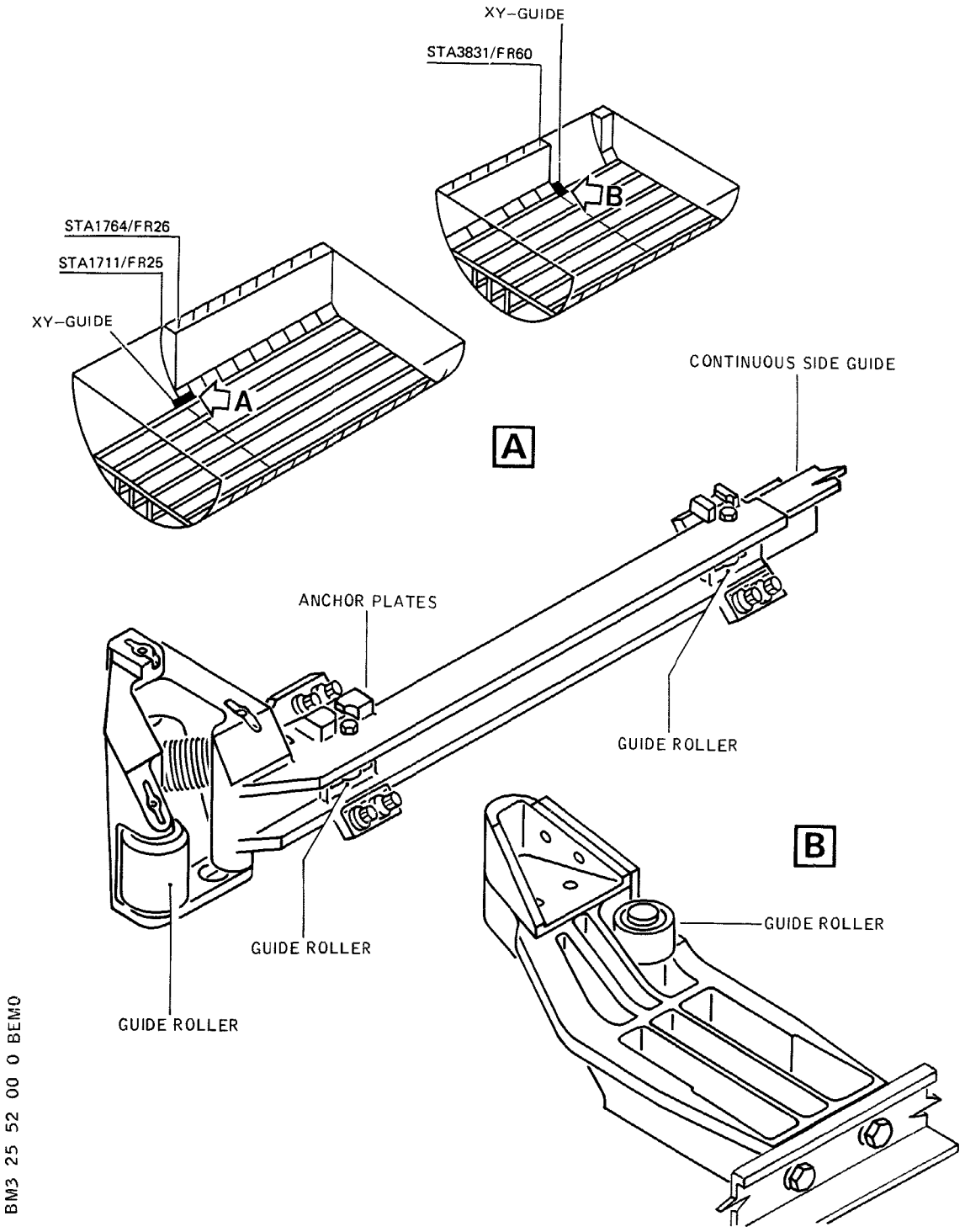
(5)Retractable Y-Guide

(Ref. Fig. 018)

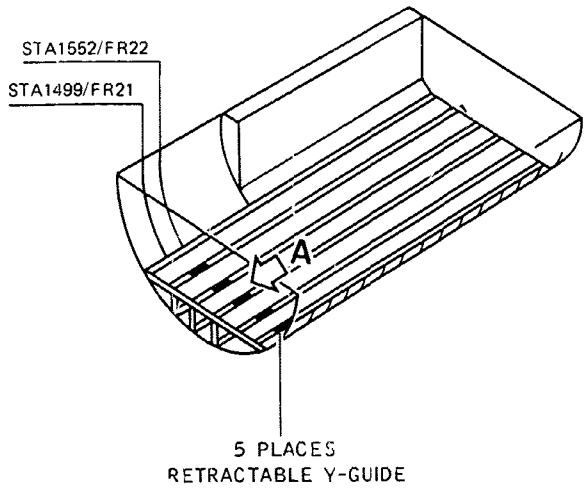
Retractable Y-guides are install in both FWD and AFT cargo compartments to align half width containers. In both cargo compartments the guides are installed on the aircraft centerline. In the FWD cargo compartment one guide is installed in the ball mat area between STA1658/FR24 and STA1711/FR25; the second guide is located aft of the ball mats. In the AFT compartment one guide is installed in the ball mat area and the second fwd of the ball mats. In each compartment the guide in the ball mat area is overridable in the load direction, whereas the second guide is overridable in the unload direction.

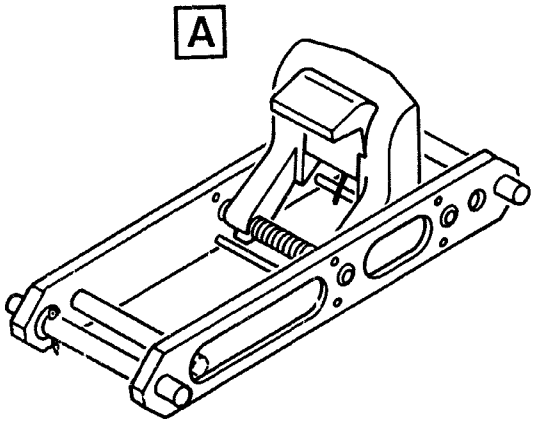
When loading half width containers in pairs, the lead container engages and over-rides a guide roller, which retracts against spring pressure. Depression of the joystick on the control panel causes the containers to separate, which allows the guide roller to rise against spring pressure. The guide roller aligns half width containers in the X-direction.

During unloading of half width containers the guide inthe ball mat area




XY-Guide
Figure 016

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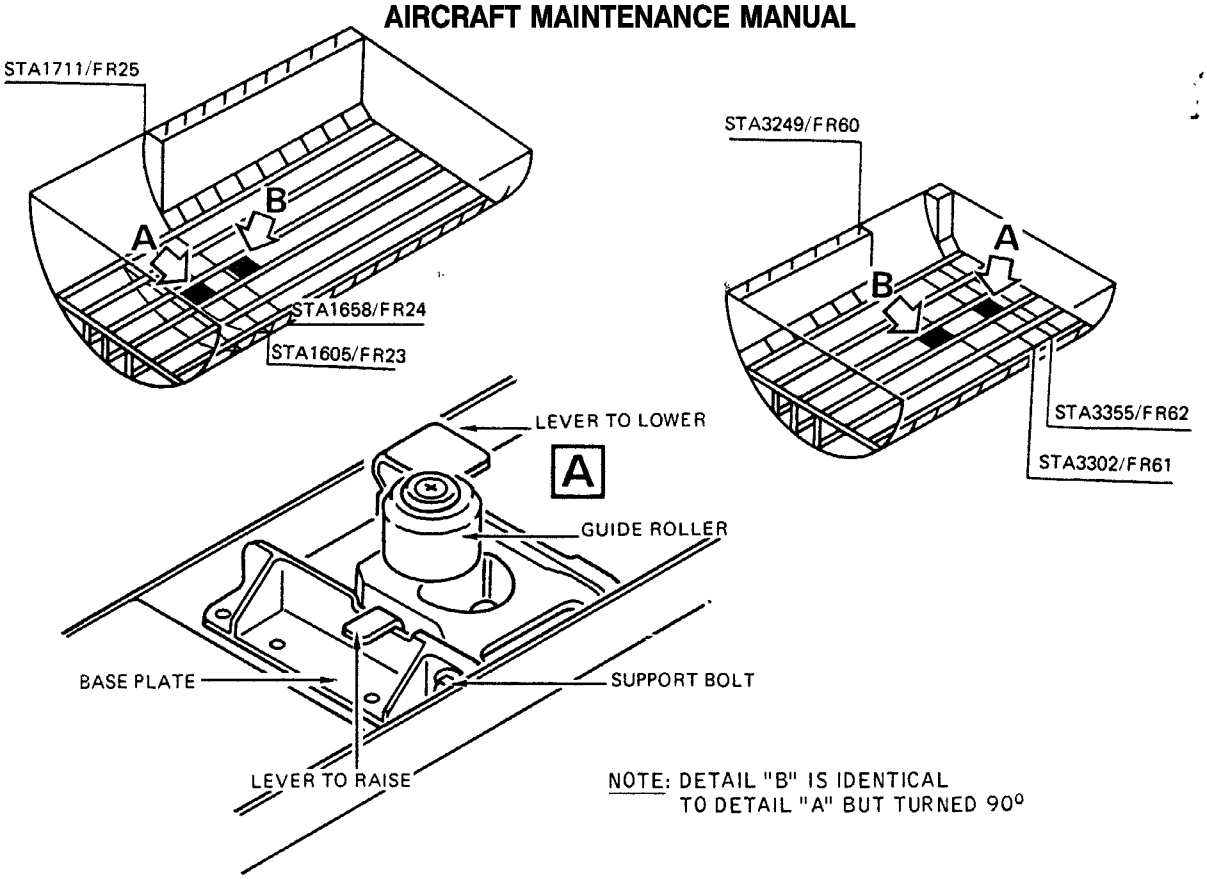
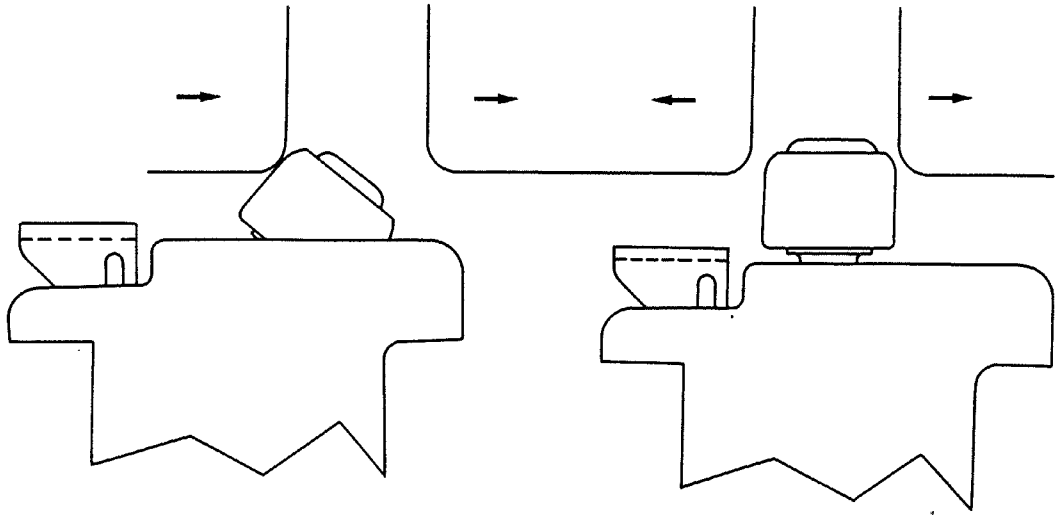
Retractable Container Guide
Figure 017



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Retractable Y-Guide
Figure 018

must be lowered manually. The guide is provided with two levers; the larger lever is depressed to lower the guide and the smaller lever to raise the guide. Before loading and unloading pallets and full width containers, both retractable Y-guides must be lowered manually.

(6)Container Latch 47

(Ref. Fig. 019)

Container latches 47 are installed in the ball mat area of both the FWD and AFT cargo compartments. In the FWD compartment the latches are located between STA1499/FR21 and STA1711/FR25 on the aircraft center line. The latches in the AFT cargo compartment are located between STA3249/FR60 and STA3408/FR63 on the aircraft center line. The manually operated latches secure half width containers in booth the Y- and Z-directions; the latches provide facilities for securing two containers back-to-back. Limit switches are fitted under selected latches, and are wired in series with the associated power drive units so that power is only available to these power drive units when the latches are lowered.

(7)Container Latch 42 and Pallet Latch 42 (Ref. Fig. 019)

(a)Container Latch 42

Container latches 42 are installed in the FWD cargo compartment between STA1870/FR34 and STA2029/FR37, and in the AFT cargo compartment at STA3249/FR60 and STA3408/FR63. The manually-operated latches secure containers and 2L3P pallets in the X-direction. Limit switches are fitted under selected latches and are wired in series with the associated power drive units so that power is only available to these power drive units when the latches are lowered.

(b)Pallet Latch 42 (Ref. Fig. 019)

Pallet Latches 42 are installed in the AFT compartment at STA3090/FR54.3. The manually-operated latches secure containers and 2L3P pallets in the X- and Z-directions. Limit switches are fitted under selected latches and are wired in series with the associated power drive unit so that power is only available to these power drive units when the latches are lowered.

(8)Pallet Latch 19

R **ON A/C 101-104,

(Ref. Fig. 020)

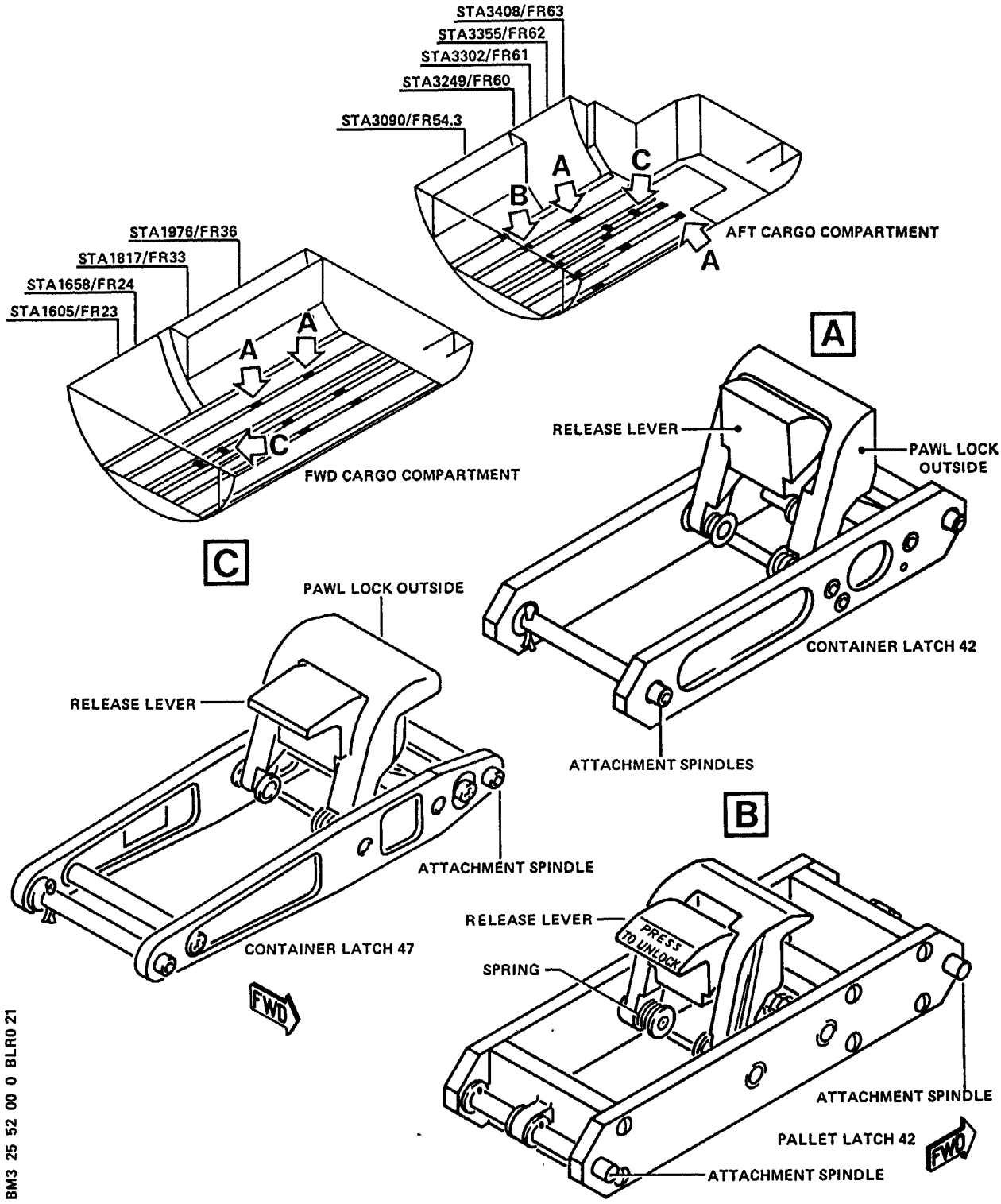
R **ON A/C 105-200,

(Ref. Fig. 021)

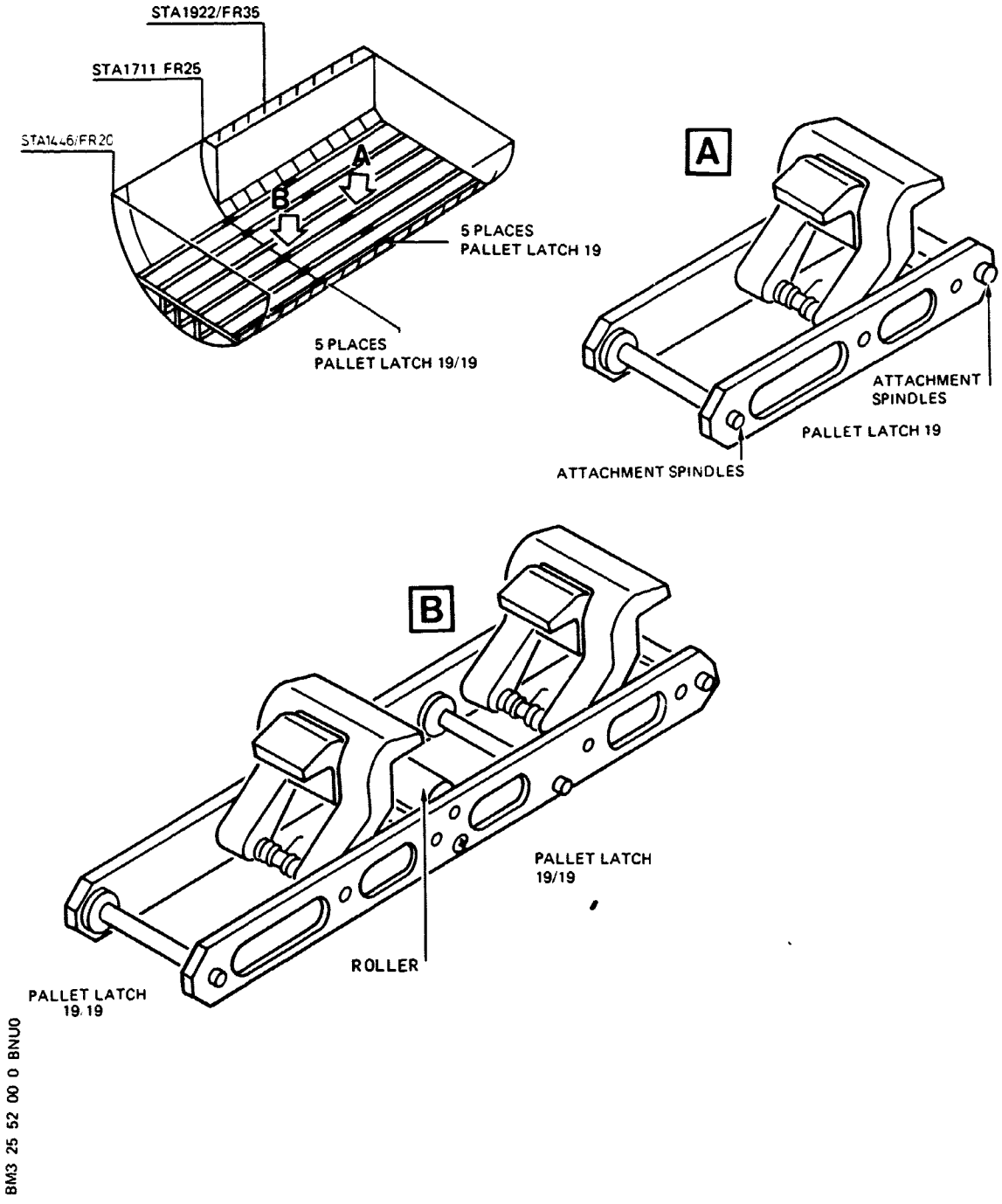
Manually-operated pallet latches 19 are installed in the ball mat area of the FWD cargo compartment at STA1446/FR20. Each assembly contains one pair of XZ-latches providing latching of 88 inch pallets only.

(9)Pallet Latch 19/19 (Ref. Fig. 021)

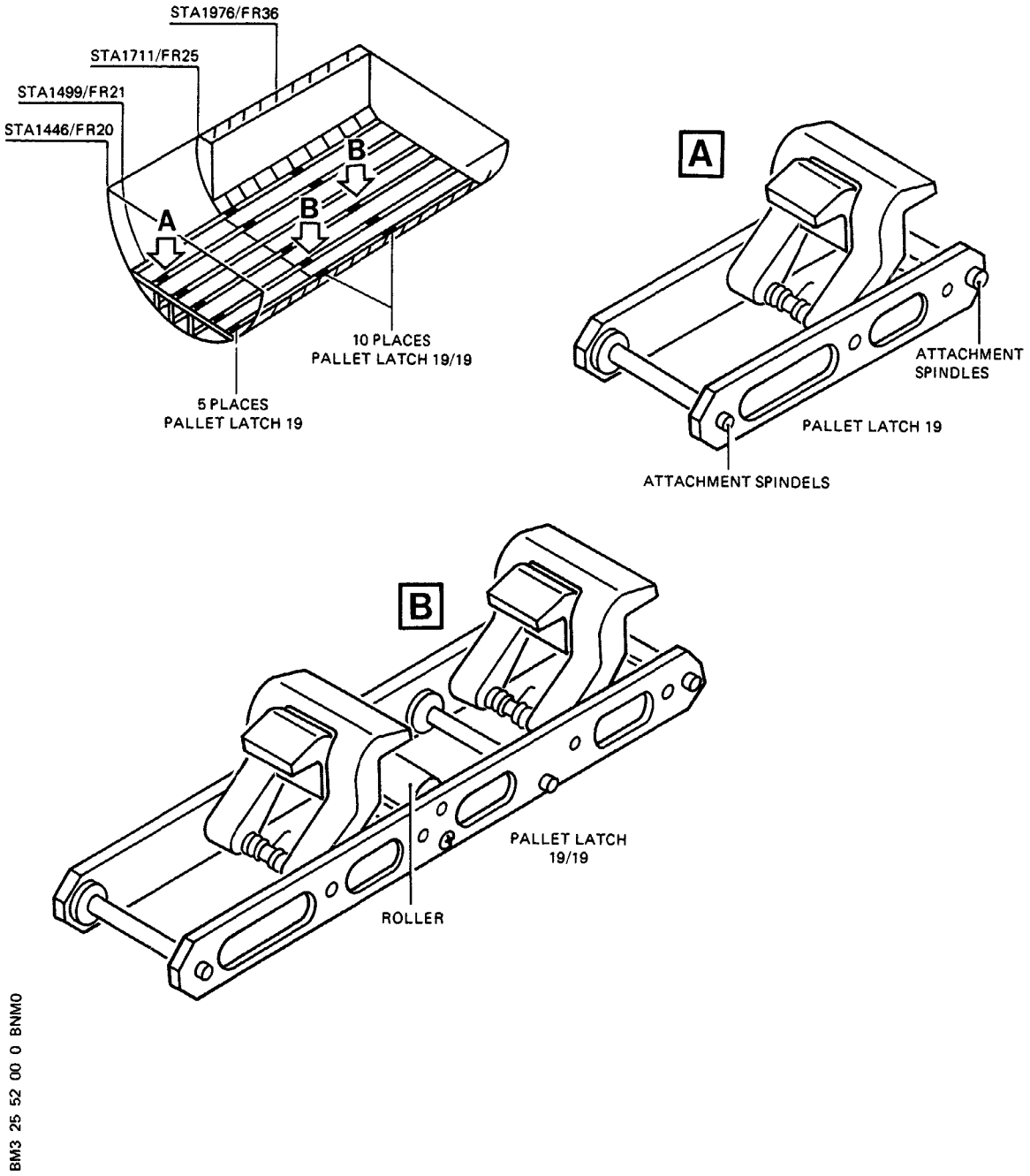
Manually-operated pallet latches 19/19 are installed in the FWD cargo compartment only. The latches are installed across the compartment at STA1711/FR25 and at STA1976/FR36. Each assembly contains two pairs of independant XZ-latches providing back-to-back latching for 88 inch and 96 inch pallets. In the ball mat area the pallet latches 19/19 can be




Container Latch 47/Container Latch 42
Figure 019




Pallet Latch 19 and Pallet Latch 19/19
Figure 020




Pallet Latch 19 and Pallet Latch 19/19
Figure 021

used in conjunction with the retractable container guides to secure full or half width containers in position. Similarly, in loading positions 21L and 21R, the pallet latches 19/19 are used in conjunction with container latches 42 to secure containers. Limit switches are fitted under selected latches and are wired in series with the associated power drive units so that power is only available to these power drive units when the latches are lowered.

R **ON A/C 101-104,

Manually operated pallet latches 19 are installed in the FWD cargo compartment between STA1923/FR35 and STA1976/FR36. Each assembly contains one pair of XZ-latches providing latching of 88 inch pallets only. Limit switches are fitted under selected latches and are wired in series with the associated drive unit so that power is only available to these units when the latches are lowered.

(9)Pallet Latch 19/19 (Ref. Fig. 020)

Manually operated pallet latches 19/19 are installed in the FWD cargo compartment only. The latches are installed across the compartment at STA1711/FR25. Each assembly contains two pairs of independent XZ-latches providing back-to-back latching for 88 inch pallets, 2L3P pallets, ALI1000.001 pallets (60.4 x 125 inch) and containers. Limit switches are fitted under selected latches and are wired in series with the associated power drive units so that power is only available to these power drive units when the latches are lowered.

R **ON A/C 101-200,

(10)Overridable YZ-Latch

R **ON A/C 105-200,

(Ref. Fig. 022)

R **ON A/C 101-104,

(Ref. Fig. 023)

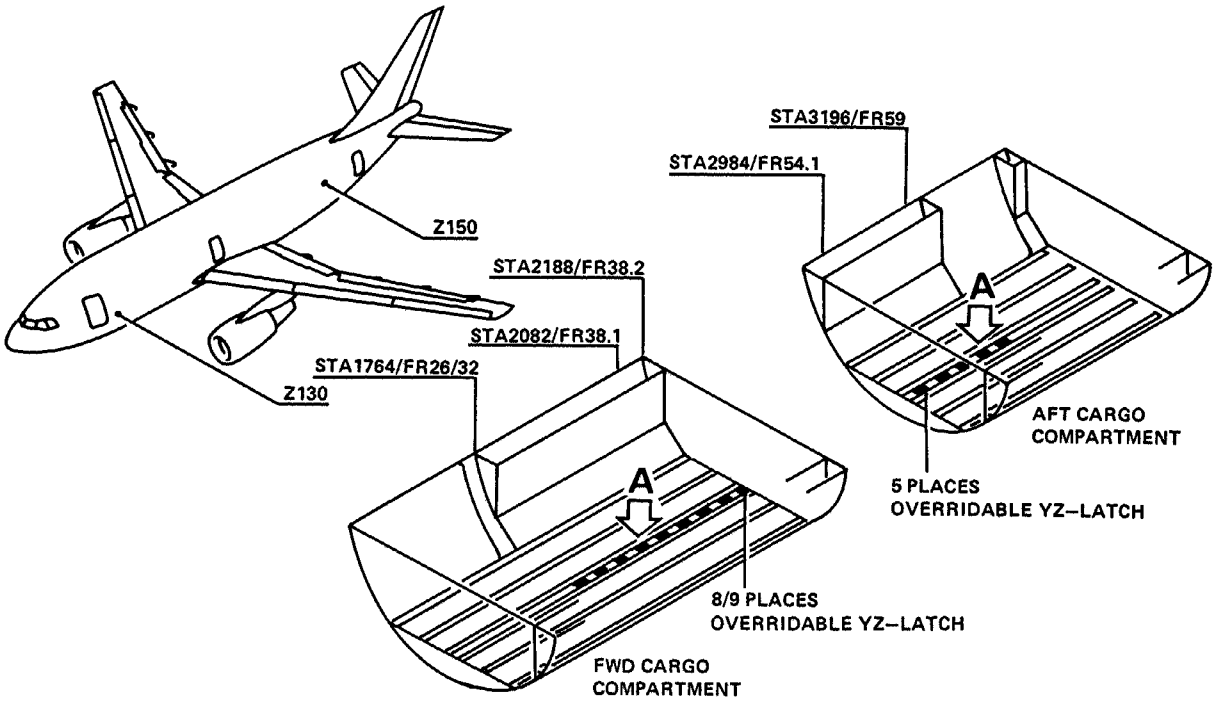
R **ON A/C 101-200,

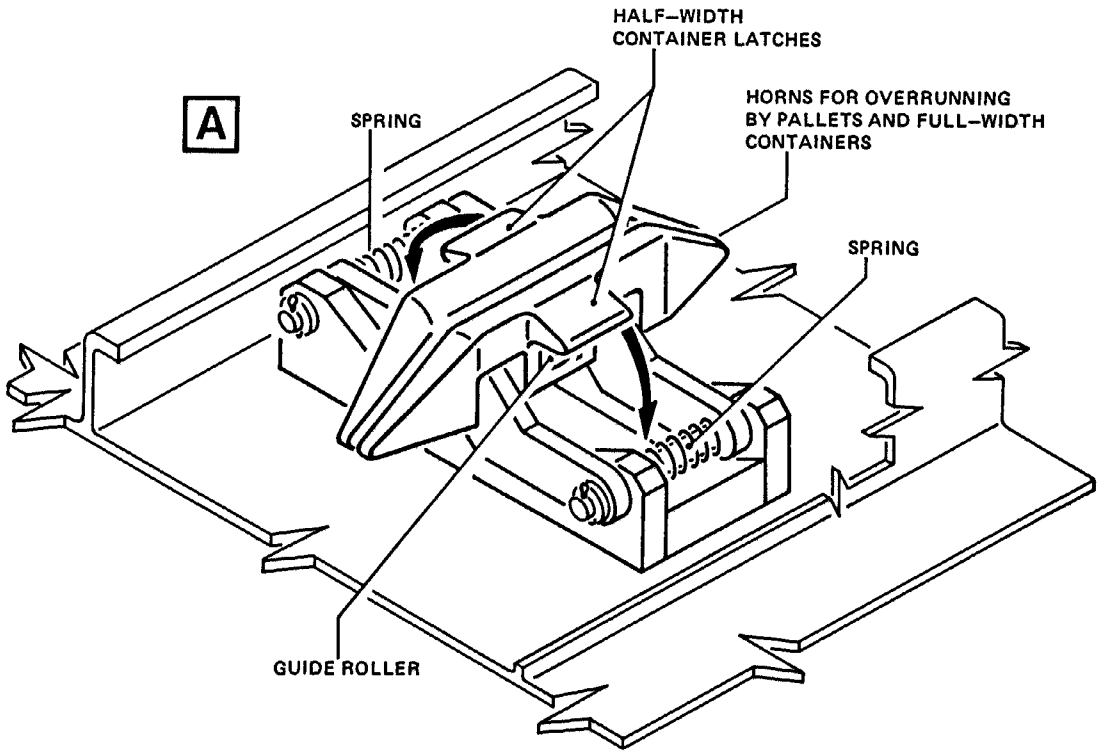
Overridable YZ-latches are installed in both the FWD and AFT cargo compartments on the aircraft centerline. The latches secure half width containers in both the Y- and Z-directions. When pallets or full width containers are moved over the latches, the pallet or container base depresses the latches against spring pressure. Removal of the pallet or container allows the latches to rise automatically.

(11)Fixed Container Latch

(Ref. Fig. 024)

Fixed container latches are installed to the ends of the roller tracks in the FWD cargo compartment at STA2188/FR38.2 and in the AFT cargo compartment at STA2931/FR54 and at STA3567/FR66. In the FWD cargo

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Overridable YZ-Latch
Figure 022

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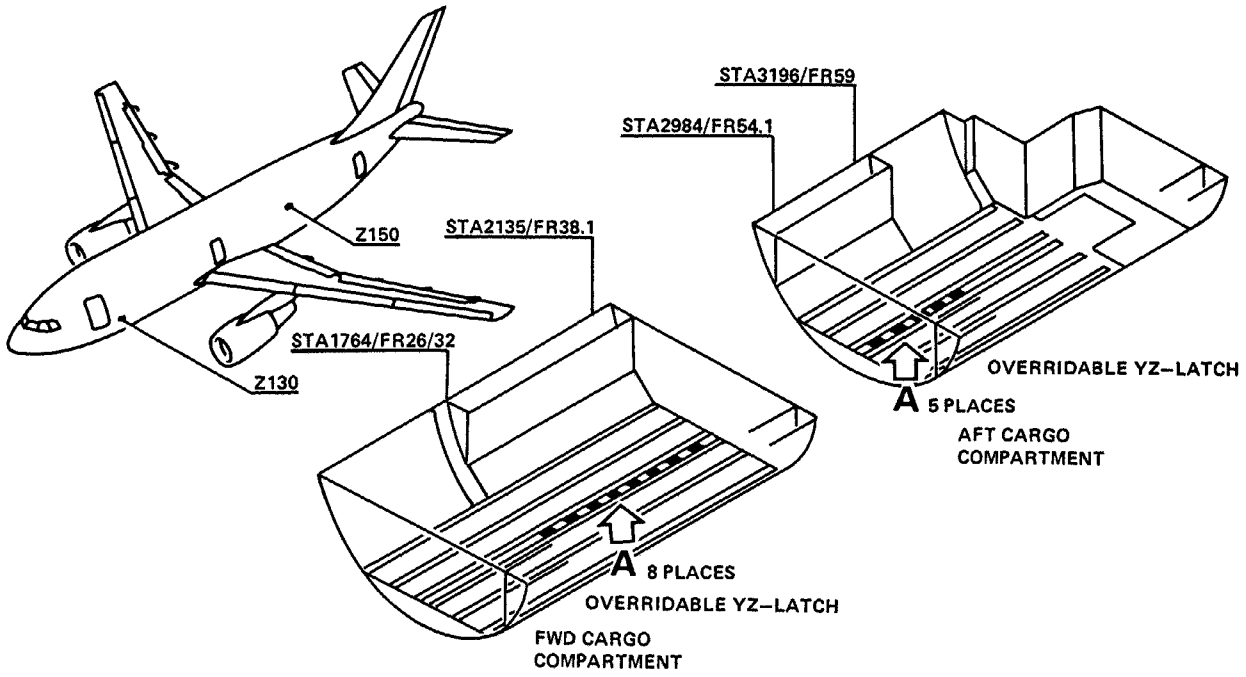


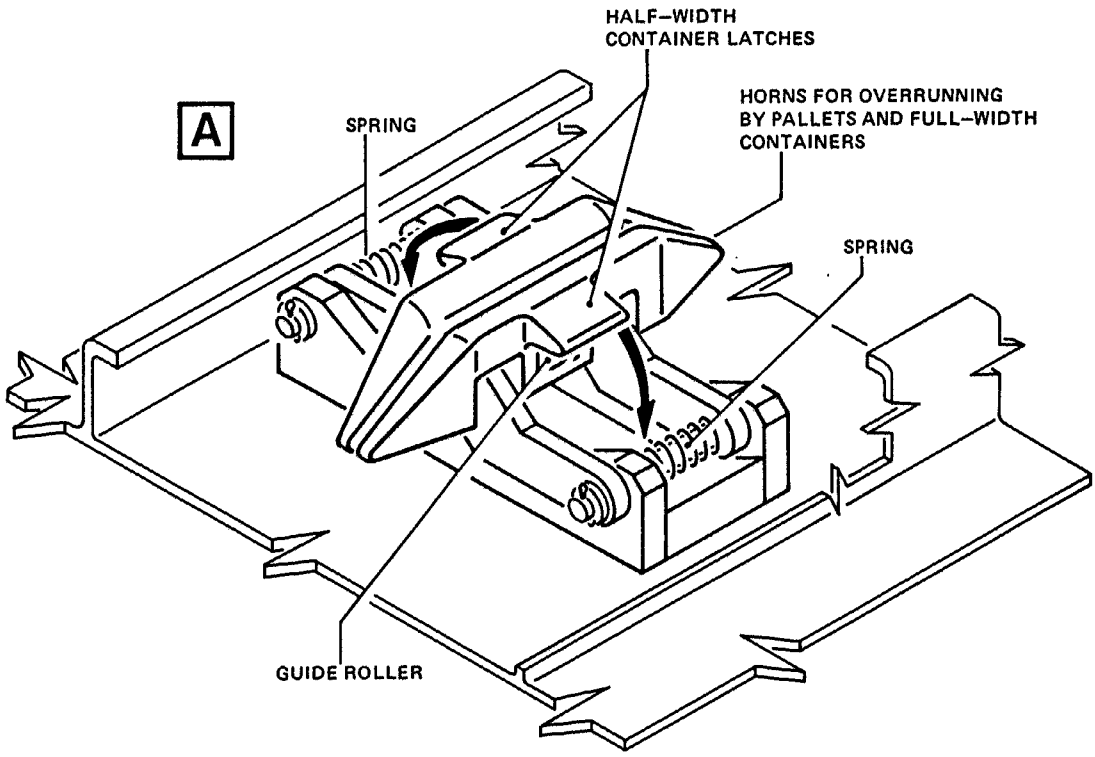


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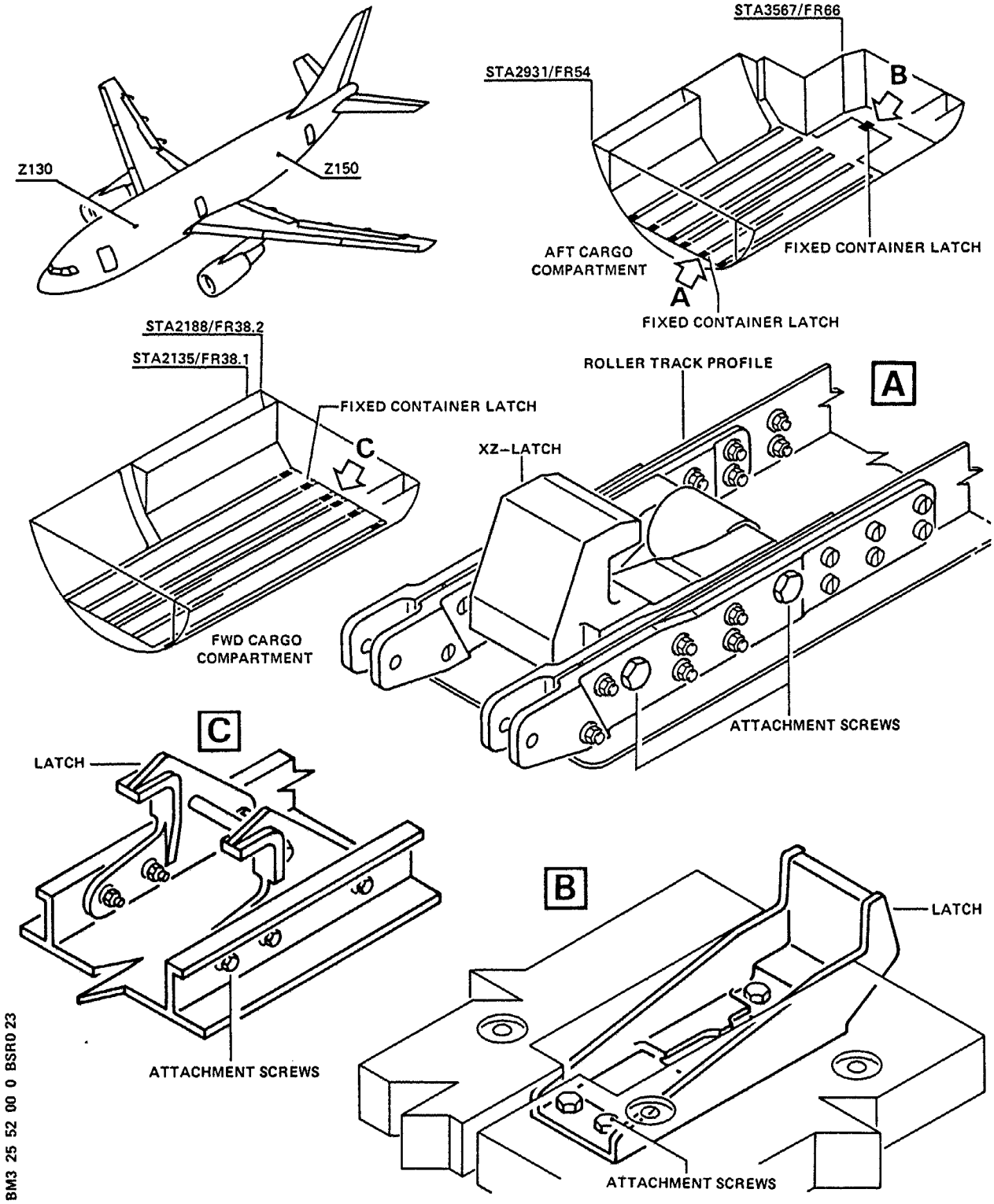
Overridable YZ-Latch
Figure 023




Fixed Container Latch
Figure 024

compartment the latches secure pallets and containers in both the X- and Z-directions. In the AFT cargo compartment the latches at STA2931/FR54 secure containers, 2L3P pallets or the Additional Center Tank in both the X- and Z-directions.
The latch at STA3567/FR66 secures only containers in the X-direction.

(12)Fixed YZ-Latch

R **ON A/C 105-200,

(Ref. Fig. 025)

R **ON A/C 101-104,

(Ref. Fig. 026)

R **ON A/C 101-200,

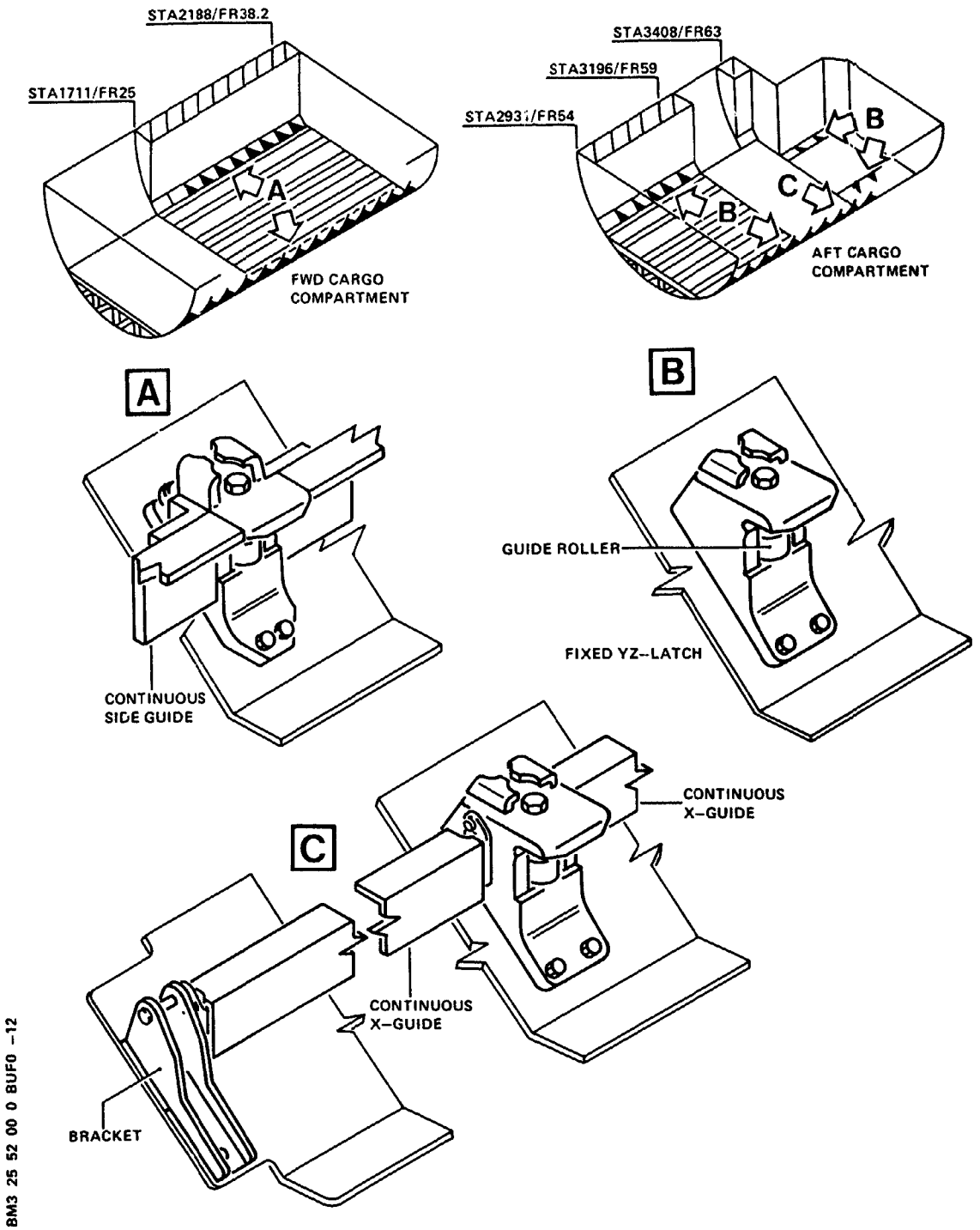
Fixed YZ-latches are secured to the sidewalls of both the FWD and AFT cargo compartments at each frame position. The latches restrain pallets and containers in both the Y- and Z-directions. A vertically mounted roller incorporated within the latch body provides guidance in the X-direction. The upper part of the latch is designed as a tie-down lug with a load capacity of 2000 lbs. (907 kg) in all load directions.

(13)Continuous Guides (Ref. Fig. 025)
Continuous side guides are fitted between the fixed YZ-latches of the FWD cargo compartment, to improve the guidance of misshaped pallets.
In the AFT cargo compartment continuous X-guides are fitted between the fixed YZ-latches opposite the AFT cargo compartment door from STA3196/FR59 thru STA3408/FR63 to avoid damages to cargo compartment linings by canted ULD's during loading procedures.

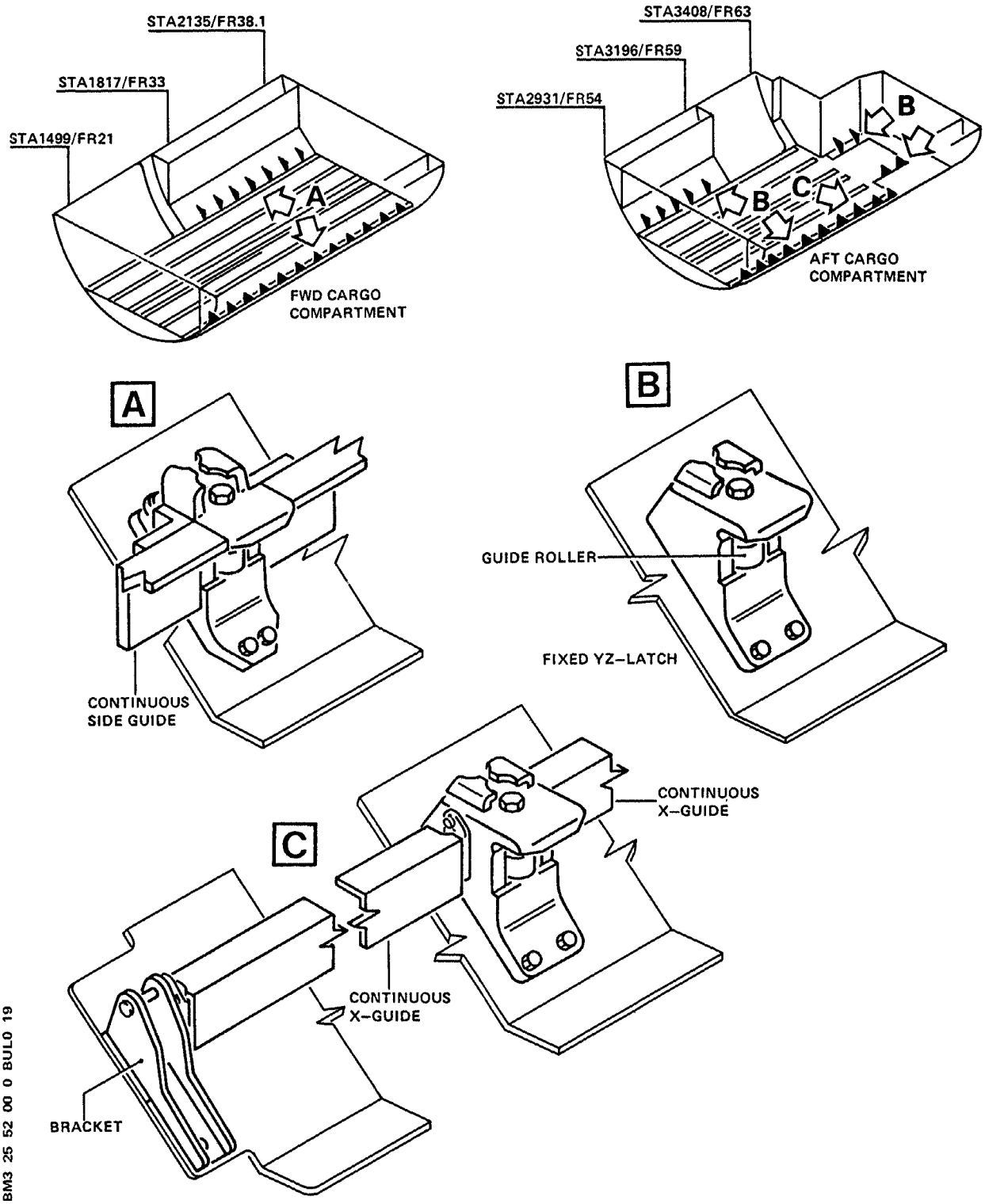
(14)Retractable X-Guide
(Ref. Fig. 027)
Two manually-operated retractable X-guides are fitted in the ball mat area of the AFT cargo compartment. These guides are raised when loading a ULD into position 51. When raised, the guides act as a stop in the Y-direction, and align a ULD in the X-direction before conveyance into position 51. Before loading a ULD into position 43L or unloading positions 41L and 42L, the retractable X-guide must be lowered.

R **ON A/C 101-104,

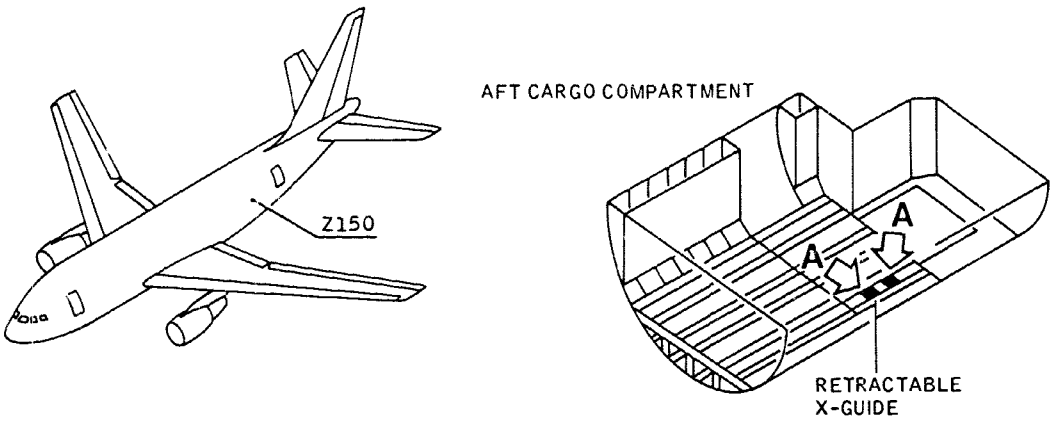
(15)Retractable Door Sill Guide
(Ref. Fig. 028)
One manually-operated retractable door sill guide is installed on the door sill of the FWD cargo compartment between STA1499/FR21 and STA1552/FR22 to align ULDs with the retractable container guides during loading and unloading. The guide consists of a shaped base support carrying a hinged guide member with guide roller and an overcenter elbow-joint lever assembly. The guide member is carried on a pivot which also carries a coil spring to retain the guide member in the raised or lowered position as required. With the guide member in the




Fixed YZ-Latch and Continuous Guides
Figure 025




Fixed YZ-Latch and Continuous Guides
Figure 026

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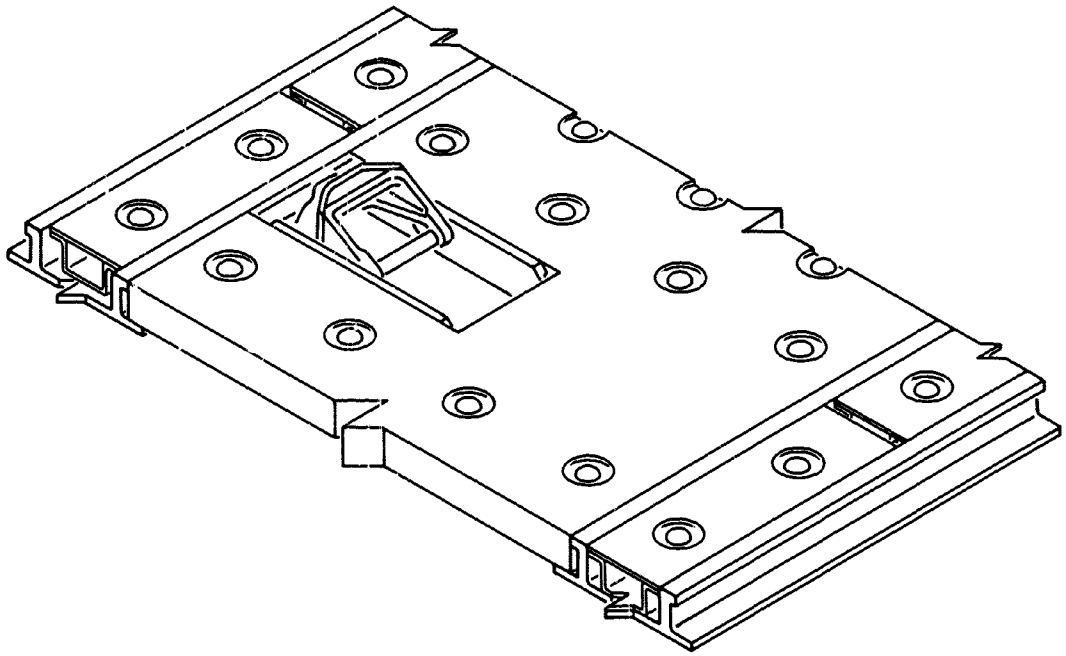

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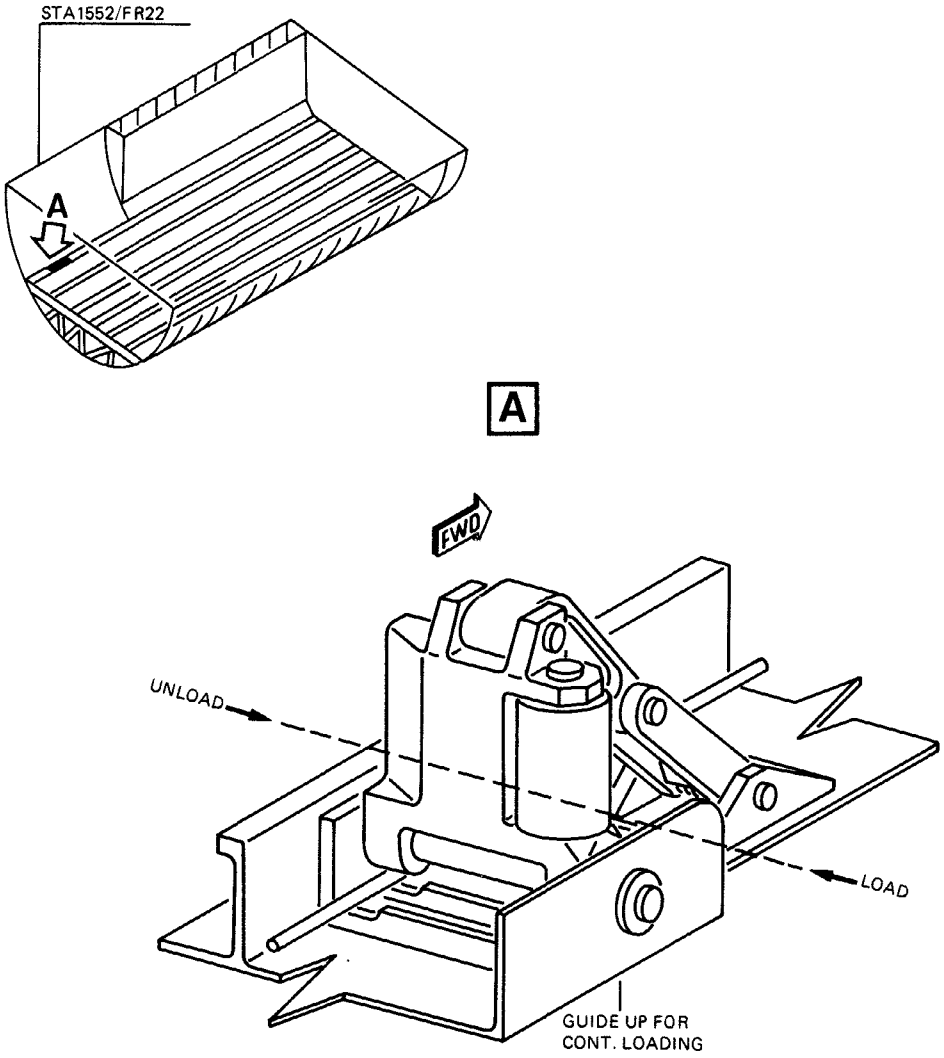
Retractable X-Guide
Figure 027

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Retractable Door Sill Guide
Figure 028

raised position, the lever assembly is moved overcenter, and is locked in this position by spring pressure. To lower the guide, the lever assembly is raised manually until spring pressure causes the lever assembly to lower the guide member below the level of the roller track. The door sill guide must be lowered before closing the FWD cargo compartment door.

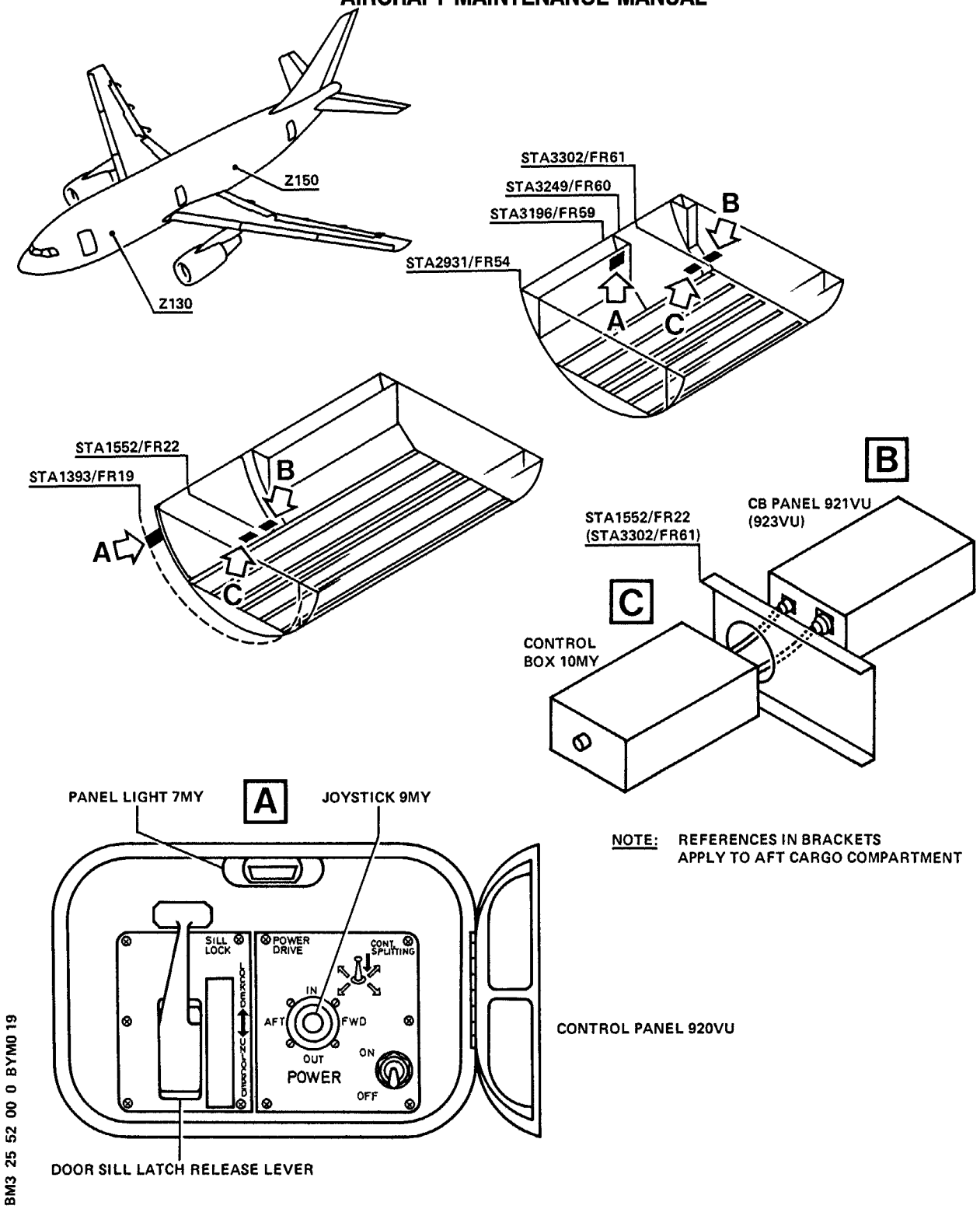
R **ON A/C 101-200,

C. Control Components
(Ref. Fig. 029)
The control components comprise a control panel, controlbox, circuit breaker panel and limit switches. The control panel (920VU) is provided with 28VDC from busbar 505PP via circuit breaker 6MY (in AFT cargo compartment from busbar 503PP via circuit breaker 506MY), andcontrols relays in the control box (10MY) which, in turn, switch a 115VAC, 3phase supply to the power drive units of the conveyance system. The 115VAC 3phase supply is derived from Route 2P, circuit XN via circuit breaker 1MY (in AFT cargo compartment via 501MY).

(1)Control Panel
(Ref. Fig. 030)
(Ref. Fig. 031)
(Ref. Fig. 032)
The control panel 920VU is located in a recessed housing positioned forward of the cargo compartment door. Mounted on the control panel are a power ON/OFF switch, a five-position joystick and a door sill latch operating lever (sill lock). With the manually-operated YZ-latches of the door sill latches lowered, the panel light is illuminated, indicating that 28VDC is available to power ON/OFF switch 8MY. This switch connects the 28V supply to power relay 4A which, in turn, switches the supply to joystick 9MY and closes contacts 4A in the 3phase supply.
The five-position joystick is biased to a center-neutral position, and gated to permit the manual selection of only one position at a time. The positions available are:

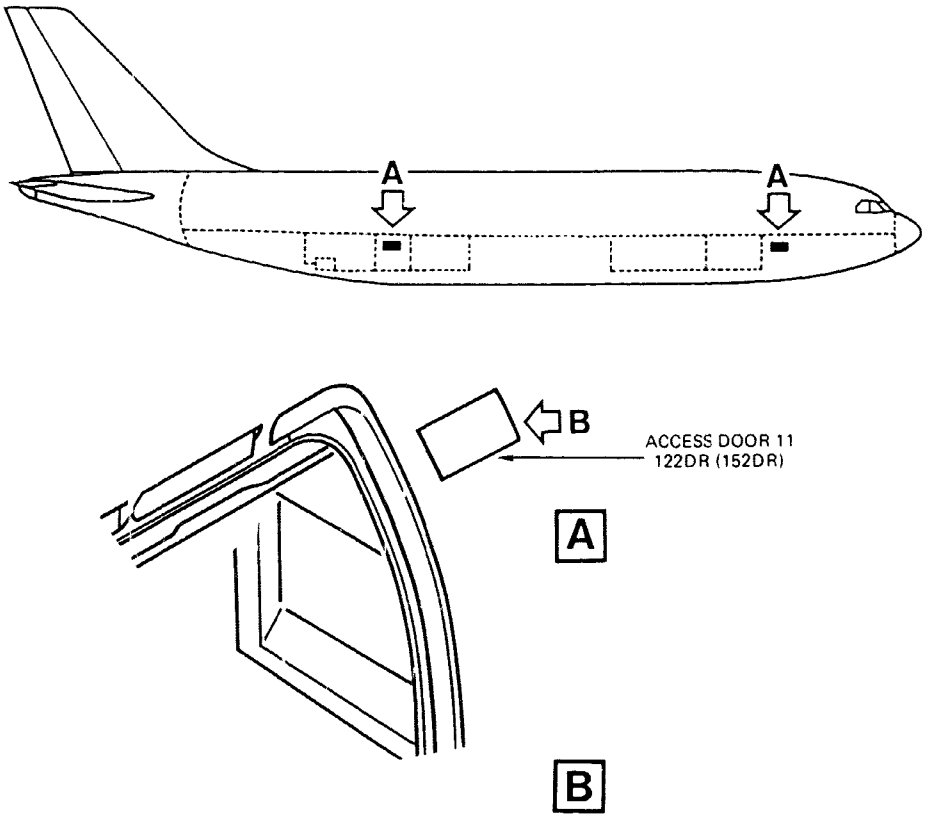
| Position | Action |
|---|---|
| IN | Transverse power drive units operate in the load direction |
| OUT | Transverse power drive units operate in the unload direction |
| FWD | Longitudinal power drive units operate in flight direction |
| AFT | Longitudinal power drive units operate against flight direction |
| SPLIT | Transverse power drive unit in left-hand position operates in load direction, power drive unit in right-hand position operates in unload direction. |

The positions IN, FWD, AFT and OUT are engraved on the control panel.




NOTE: REFERENCES IN BRACKETS APPLY TO AFT CARGO COMPARTMENT

Control Components
Figure 029

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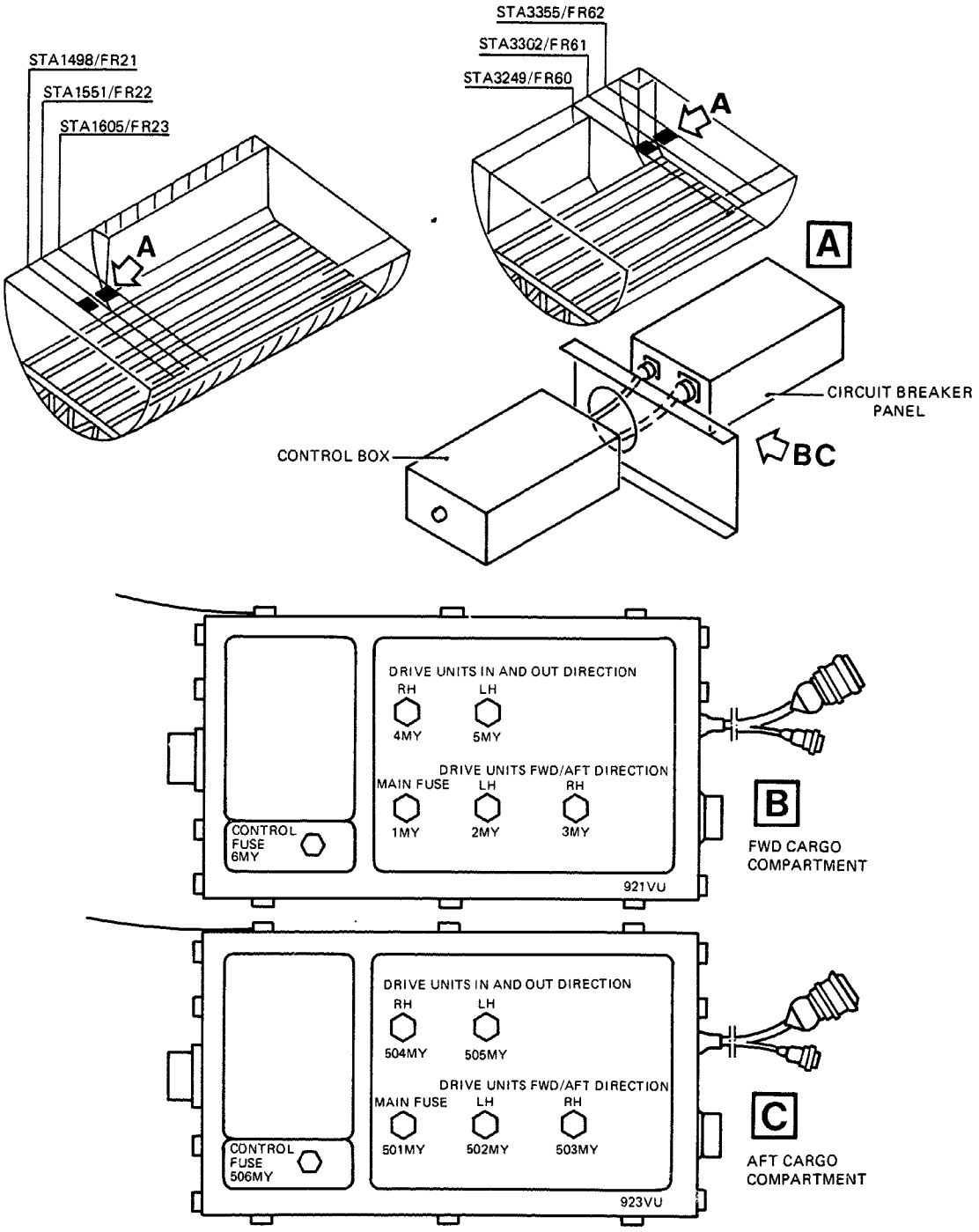
Control Panel
Figure 030

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Circuit Breaker Panel
Figure 031

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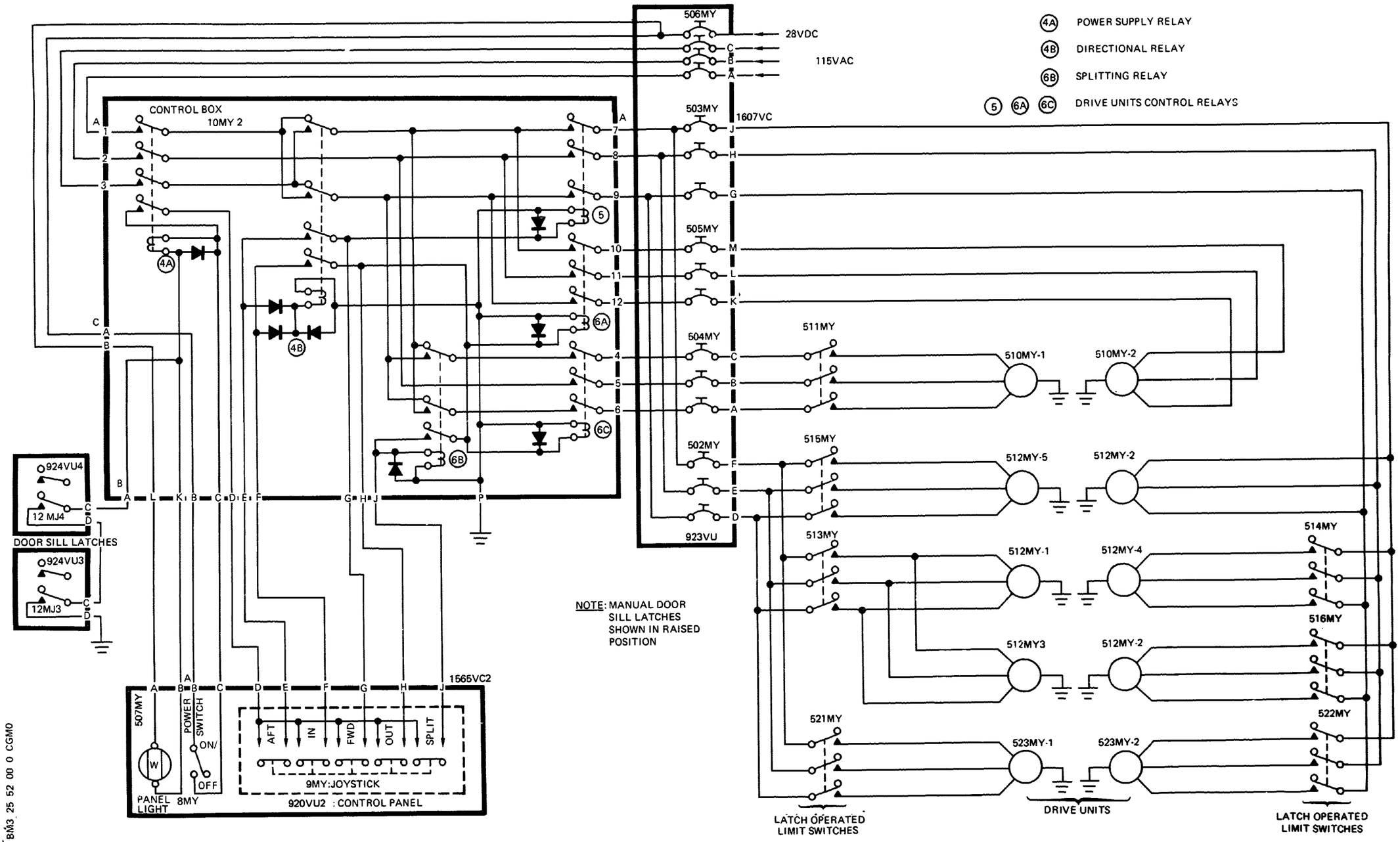


Electrical Schematic - AFT Cargo Compartment
Figure 032

The SPLIT facility, for use when loading half width containers in pairs, is obtained by depressing the joystick when it is in the center neutral position and ensures that half width containers in the ball mat area are aligned for AFT movement (FWD movement is the AFT compartment).
When the left hand loading position in the ball mat area is occupied and the associated container latch is raised, only the power drive unit in the right hand loading position operates when IN or OUT is selected.
Raising of selected latches in loading positions outside the ball mat area, electrically isolates the associated power drive units, which do not operate when FWD or AFT is selected.
The door sill operating lever is manually operated to lower the Y-latches of the associated door sill latches.

(2)Control Box (Ref. Fig. 029)
The control box 10MY is located in the ceiling of the cargo compartment, aft of STA1499/FR21 in the FWD compartment (fwd of STA3302/FR61 in AFT compartment) and contains six relays with five protection diodes plus two signal diodes. Relay 4A 'Power ON Relay' is energized by the power ON/OFF switch on control panel 920VU. This relay switches 28VDC to the joystick 9MY and 115VAC 3phase to the direction relay contacts. The direction relays 4B thru 6B are controlled by the joystick and route the supply to the appropriate power drive unit.
The direction relays are energized for each position of the joystick as follows:

IN - relay 4B, 6A, 6C
FWD - relay 5
AFT - relay 4B, 5
OUT - relay 6A, 6C
SPLIT - relay 6A, 6B, 6C

When the SPLIT operation is selected, relay contacts 6B reverse the 3phase supply to right-hand transverse power drive unit in the ball mat area.
This action results in the left-hand transverse power drive unit operating in the load direction and the right-hand power drive unit operating in the unload direction, thus separating the two half width containers.

(3)Circuit Breaker Panel (Ref. Fig. 031)
The circuit breaker panel 921VU (923VU) is located in the ceiling of the cargo compartment, fwd of STA1605/FR23 in the FWD compartment and aft of STA3302/FR61 in the AFT compartment. The panel houses five resettable, current-sensitive circuit breakers which provide the control system with circuit overload protection.

(4)Limit Switches
(Ref. Fig. 033)
(Ref. Fig. 034)
(Ref. Fig. 035)
Limit switches 11MJ/12MJ are fitted in the door sill latches, and are wired in series with both the cargo loading system control panel and the cargo compartment door closing control panel. These limit switches prevent:

(a)Operation of the cargo loading system when the manually-operated

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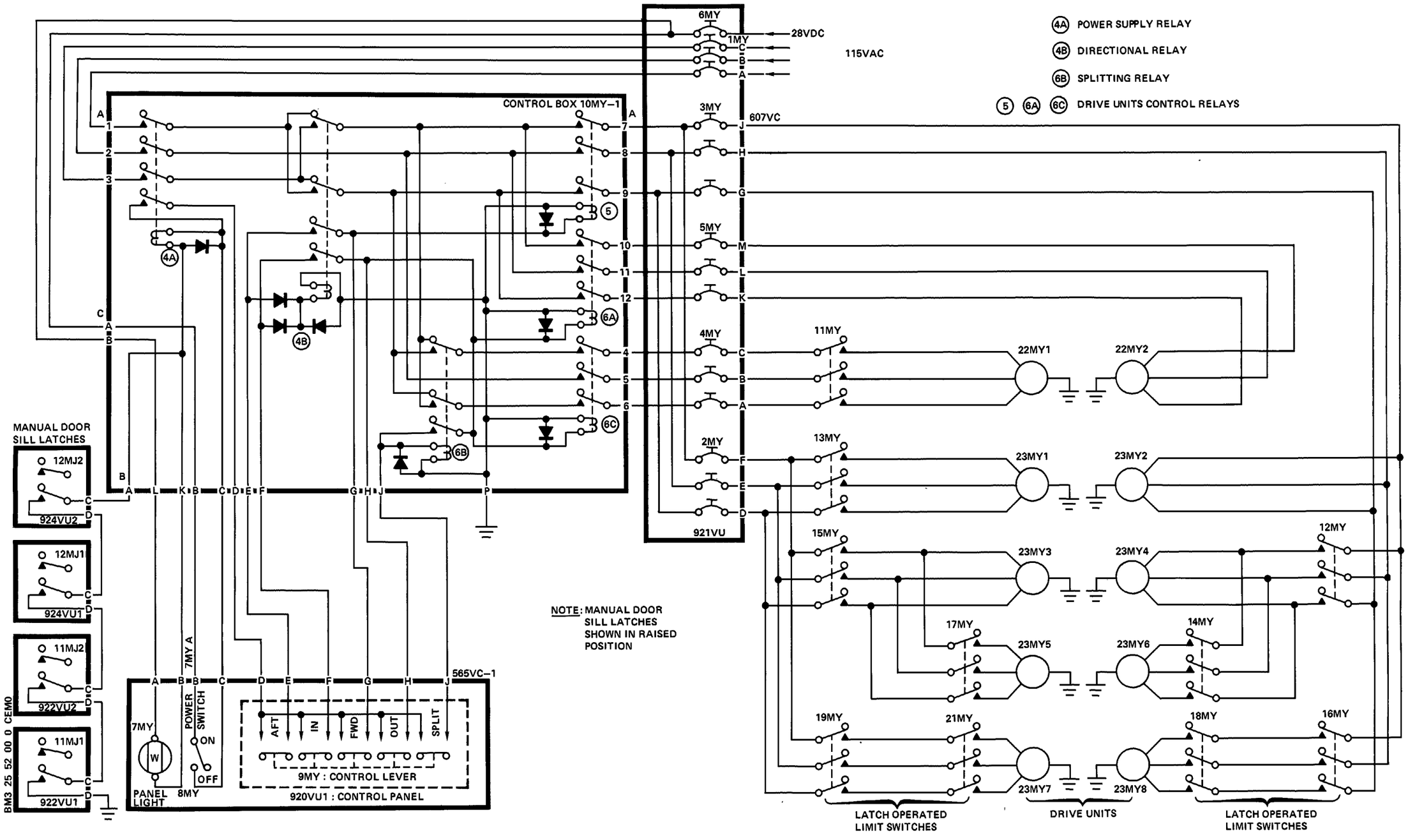
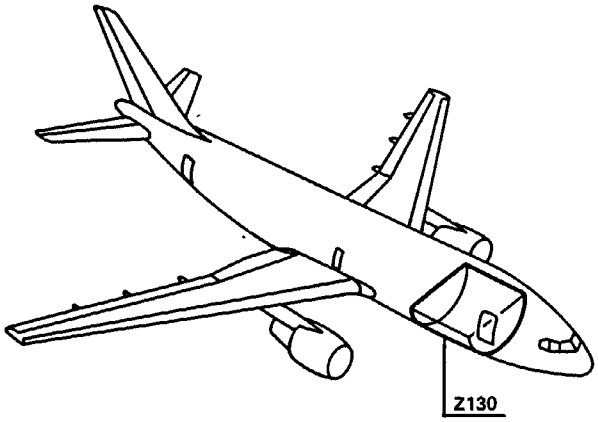
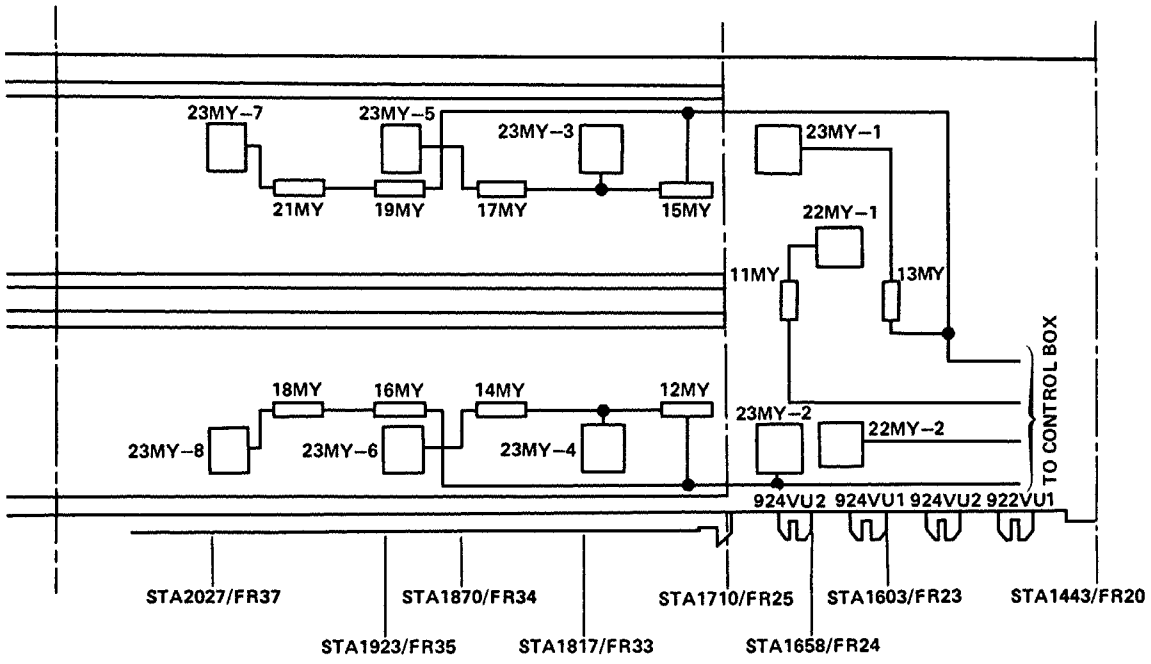



Electrical Schematic - FWD Cargo Compartment
Figure 033

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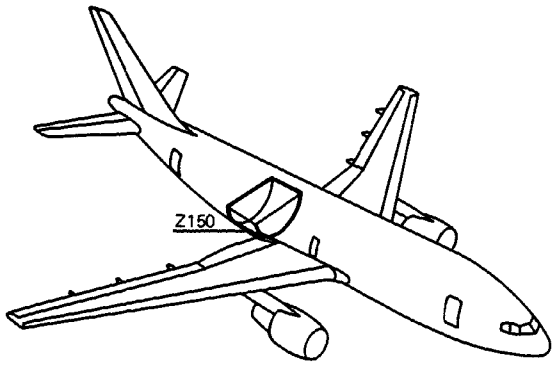
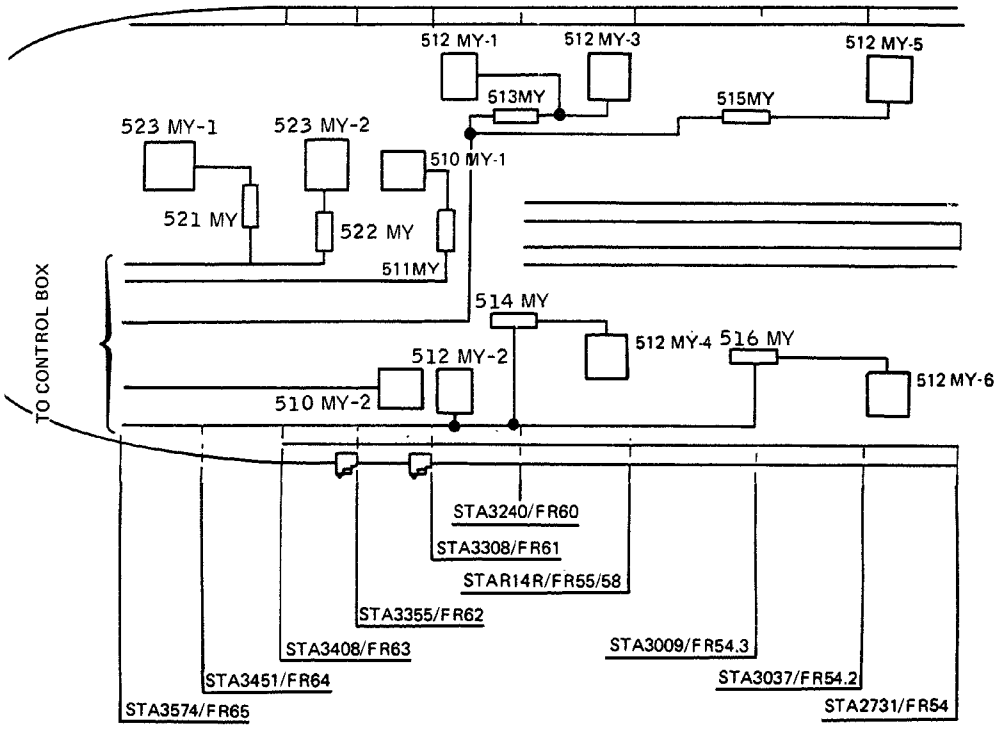
Power Drive Unit Control - FWD Cargo Compartment
Figure 034

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Power Drive Unit Control - AFT Cargo Compartment
Figure 035

YZ-latches of the door sill latches are raised.

(b)Closing of the cargo compartment door when the manually-operated YZ-latches of the door sill latches are lowered.

In addition limit switches are fitted to selected pallet and container latches. Raising of these latches electrically isolates the associated power drive unit to prevent operation of the power drive unit when a pallet/container is latched in position.

(5)Operation

When the door sill latches are lowered the control panel light will come on, indicating that the system can be activated. The system is activated by placing the power **ON/OFF** switch on the control panel in the **ON** position. Operation of the joystick on the control panel will now activate the power drive units - depending on which direction has been selected.

NOTE : The pallet and container latches must be lowered to activate the power drive units.

Pairs of half width containers may be loaded together and subsequently split in the door loading area. Splitting is achieved by depressing the joystick in the center position. To deactivate the system the power **ON/OFF** switch is placed in the **OFF** position.

NOTE : The system will deactivate if at any time any one YZ-latch of the door sill latches is raised.

4. Operation

The procedures for operating the cargo loading system are given in the following illustrations.

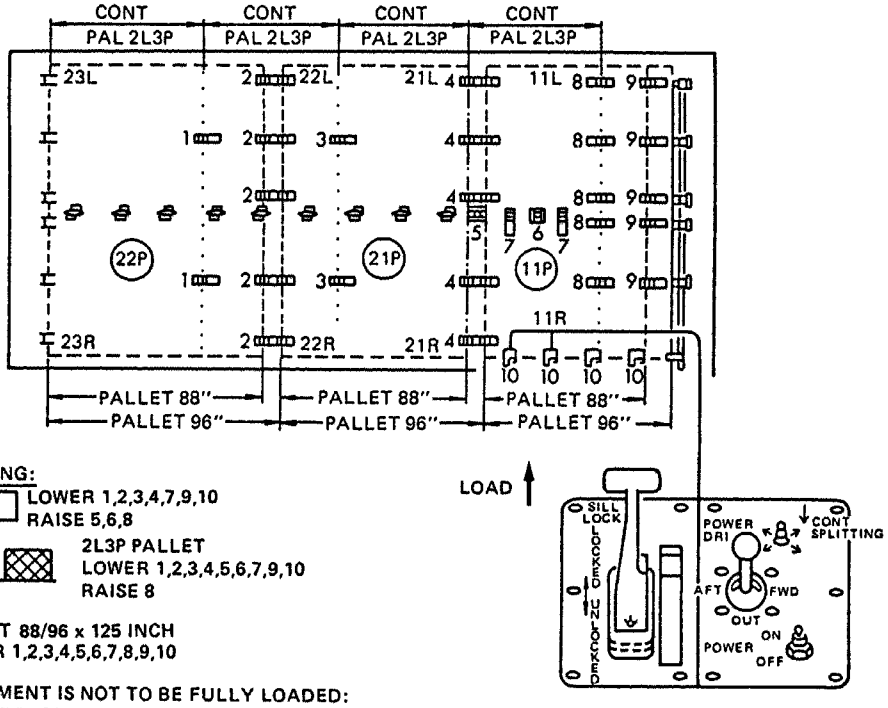
A. **FWD** Cargo Compartment - Powered Operation
(Ref. Fig. 036)
(Ref. Fig. 037)

B. **FWD** Cargo Compartment - Manual Operation
(Ref. Fig. 038)
(Ref. Fig. 039)

C. **AFT** Cargo Compartment - Powered Operation
(Ref. Fig. 040)
(Ref. Fig. 041)

D. **AFT** Cargo Compartment - Manual Operation
(Ref. Fig. 042)
(Ref. Fig. 043)

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES
– OPEN CONTROL PANEL DOOR
– SET "POWER" SWITCH TO "ON"




BEFORE LOADING:

1. OR LOWER 1,2,3,4,7,9,10
   RAISE 5,6,8
2. OR 2L3P PALLET
   LOWER 1,2,3,4,5,6,7,9,10
   RAISE 8
3. PALLET 88/96 x 125 INCH
   LOWER 1,2,3,4,5,6,7,8,9,10

NOTE: IF COMPARTMENT IS NOT TO BE FULLY LOADED:
(1) RAISE LATCHES AT REQUIRED END POSITION
(2) RAISE LATCHES IN UNOCCUPIED POSITIONS EACH SIDE OF ULD

A. CONTAINER: HALF WIDTH

NOTE: WHEN LOADING CONTAINERS SINGLY LOAD LEFT–HAND ROW (L) FIRST.

(1) MOVE CONTAINER ONTO BALL MAT AREA
(2) SELECT "IN" ON JOYSTICK UNTIL CONTAINER IS FULLY IN COMPARTMENT

NOTE: WHEN LOADING CONTAINERS IN PAIRS, FILL POSITIONS 11 L/R, CENTER JOY–STICK AND PUSH IN (SPLITTING) UNTIL CONTAINERS ARE LINED UP FOR AFT MOVEMENT.

(3) SELECT "AFT" AND HOLD UNTIL CONTAINER IS IN REQUIRED POSITION
(4) LOCK IN POSITION BY RAISING LATCHES

NOTE: WHEN LATCHING A CONTAINER AT A DOUBLE LATCH, RAISE BOTH LATCH ELEMENTS

(5) REPEAT (1) THRU (4) TO LOAD REMAINING POSITIONS

B. CONTAINER: FULL WIDTH

(1) REPEAT A(1) THRU A(5)

C. PALLET: 88/96 x 125 INCH

(1) MOVE PALLET ONTO BALL MAT AREA
(2) SELECT "IN" ON JOYSTICK AND HOLD UNTIL PALLET IS FULLY IN COMPARTMENT
(3) SELECT "AFT" AND HOLD UNTIL PALLET IS IN REQUIRED POSITION
(4) LOCK IN POSITION BY RAISING LATCHES

NOTE: WHEN LATCHING AN 88 IN. PALLET AT A DOUBLE LATCH, RAIS BOTH LATCH ELEMENTS.

(5) REPEAT (1) THRU (4) TO LOAD REMAINING POSITIONS

D. PALLET: 2L3P PALLET

(1) REPEAT A(1) THRU A(5)

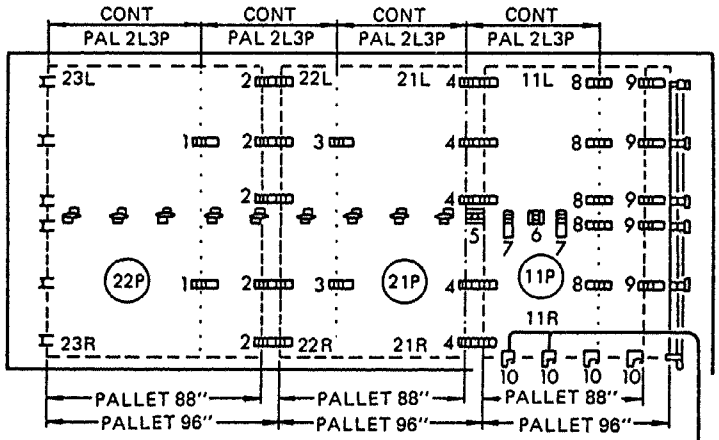
– RAISE LATCHES 10
– SET "POWER" SWITCH TO "OFF"
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CNS0 23

Powered Loading - FWD Cargo Compartment
Figure 036

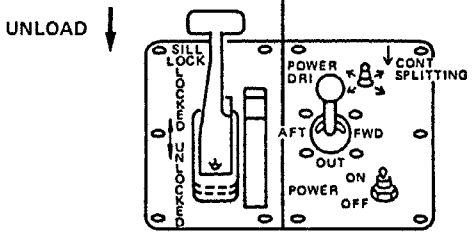
– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES

– OPEN CONTROL PANEL DOOR
– SET "POWER" SWITCH TO "ON"




BEFORE UNLOADING:

1. OR LOWER 10
2. OR 2L3P PALLET LOWER 10
3. PALLET 88/96 x 125 INCH LOWER 10




PROCEDURE FOR UNLOADING A FULL COMPARTMENT

A. CONTAINER: HALF WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL CONTAINER AT POSITION 11 R MOVES ONTO LOADER
(3.1) LOWER LATCHES 7 AND OVERRIDABLE SPLITTER 6
(3.2) SELECT "OUT" ON JOYSTICK AND HOLD UNTIL CONTAINER AT POSITION 11 L MOVES ONTO POSITION 11R
(4) REPEAT (1), (2)
(5) LOWER LATCHES AT NEXT CONTAINER (OR CONTAINERS IF UNLOADING IN PAIRS)
(6) SELECT "FWD" AND HOLD UNTIL CONTAINER (OR CONTAINERS) LINE UP WITH DOORWAY
(7) REPEAT (1)
(8) SELECT "OUT" AND HOLD UNTIL CONTAINER MOVES ONTO LOADER
(9) REPEAT (5) THRU (8) UNTIL COMPARTMENT IS EMPTY

B. CONTAINER: FULL WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL CONTAINER AT POSITION 11 R/L MOVES ONTO LOADER
(3) LOWER LATCHES AT NEXT CONTAINER
(4) SELECT "FWD" AND HOLD UNTIL CONTAINER IS IN LINE WITH DOORWAY
(5) REPEAT (1), (2)
(6) REPEAT (3), (4), (1), (2), UNTIL COMPARTMENT IS EMPTY

C. PALLET: 88/96 x 125 INCH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL PALLET AT POSITION 11 P MOVES ONTO LOADER
(3) LOWER LATCHES AT NEXT PALLET
(4) SELECT "FWD" AND HOLD UNTIL PALLET IS IN LINE WITH DOORWAY
(5) REPEAT (1), (2)
(6) REPEAT (3), (4), (1), (2) UNTIL COMPARTMENT IS EMPTY

D. PALLET: 2L3P PALLET

(1) REPEAT B(1) THRU B(6)

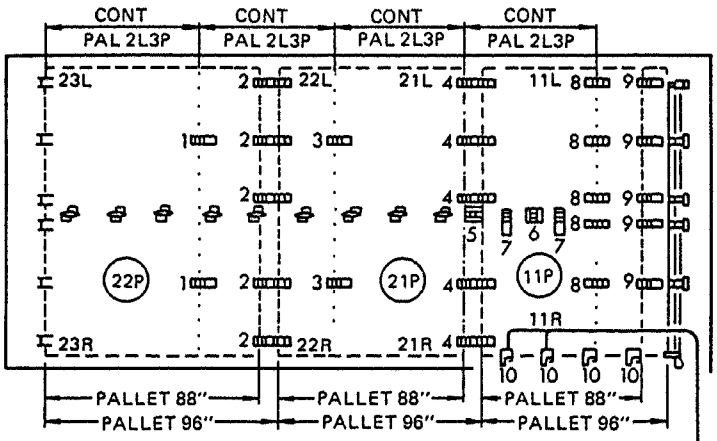
– RAISE LATCHES 10
– SET "POWER" SWITCH TO "OFF"

– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CQS0 23

Powered Unloading - FWD Cargo Compartment
Figure 037

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES AS DETAILED



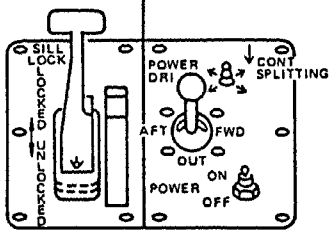

BEFORE LOADING:

1. OR LOWER 1,2,3,4,7,9,10
   RAISE 5,6,8
2. OR 2L3P PALLET
   LOWER 1,2,3,4,5,6,7,9,10
   RAISE 8
3. PALLET 88/96 x 125 INCH
   LOWER 1,2,3,4,5,6,7,8,9,10

NOTE: IF COMPARTMENT IS NOT BE FULLY LOADED:

(1) RAISE LATCHES AT REQUIRED END POSITION
(2) RAISE LATCHES IN UNOCCUPIED POSITIONS EACH SIDE OF ULD

LOAD




A. CONTAINER: HALF/FULL WIDTH

NOTE: WHEN LOADING HALF WIDTH CONTAINER, LOAD LEFT–HAND ROW (L) FIRST

(1) PUSH CONTAINER INTO POSITION
(2) LOCK IN POSITION BY RAISING LATCHES
(3) REPEAT (1) AND (2) UNTIL ALL POSITIONS ARE LOADED

B. PALLET: 88/96 x 125 INCH

(1) PUSH PALLET INTO POSITION
(2) LOCK IN POSITION BY RAISING LATCHES

NOTE: WHEN LATCHING AN 88 IN. PALLET AT A DOUBLE LATCH, RAISE BOTH LATCH ELEMENTS.

(3) REPEAT (1) AND (2) UNTIL ALL POSITIONS ARE LOADED

C. PALLET: 2L3P PALLET

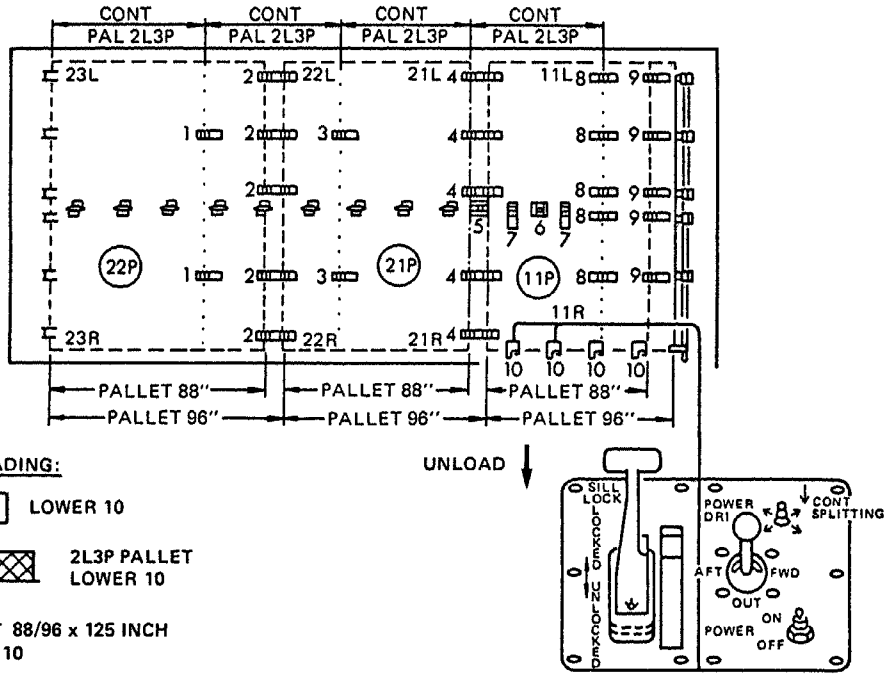
(1) REPEAT A(1) THRU A(3)

– RAISE LATCHES 10
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CSS0 23

Manual Loading - FWD Cargo Compartment
Figure 038

– OPEN COMPARTMENT DOOR
– OPEN CONTROL PANEL DOOR
– SET UP LATCHES/GUIDES




**BEFORE UNLOADING:**

1. OR LOWER 10
2. OR 2L3P PALLET LOWER 10
3. PALLET 88/96 x 125 INCH LOWER 10

PROCEDURE FOR UNLOADING
A FULL COMPARTMENT

A. CONTAINER: HALF WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) CONTAINER AT POSITION 11R – MOVE FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT CONTAINER IN RIGHT–HAND ROW (R)
(4) MOVE CONTAINER TO LINE UP WITH DOORWAY
(5) REPEAT (1) THRU (4) TO UNLOAD RIGHT–HAND ROW (R)
(6) LOWER LATCHES 7 AND OVERRIDABLE SPLITTER 6
(7) MOVE CONTAINER FROM POSITION 11 L TO 11 R
(8) REPEAT (1), (2)
(9) LOWER LATCHES AT NEXT CONTAINER IN LEFT–HAND ROW
(10) REPEAT (4), (7), (1), (2) AND (9) UNTIL COMPARTMENT IS EMPTY

B. CONTAINER: FULL WIDTH

(1) REPEAT A (1)
(2) CONTAINER AT POSITION 11 L/R – MOVE FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT CONTAINER
(4) REPEAT A (4)
(5) REPEAT A(1), B(2), B(3), A(4)

C. PALLET: 88/96 x 125 INCH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) MOVE PALLET FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT PALLET
(4) MOVE PALLET TO POSITION 11 P
(5) REPEAT (1), (2)
(6) REPEAT (3), (4), (1), (2) UNTIL COMPARTMENT IS EMPTY

D. PALLET:2L3P PALLET

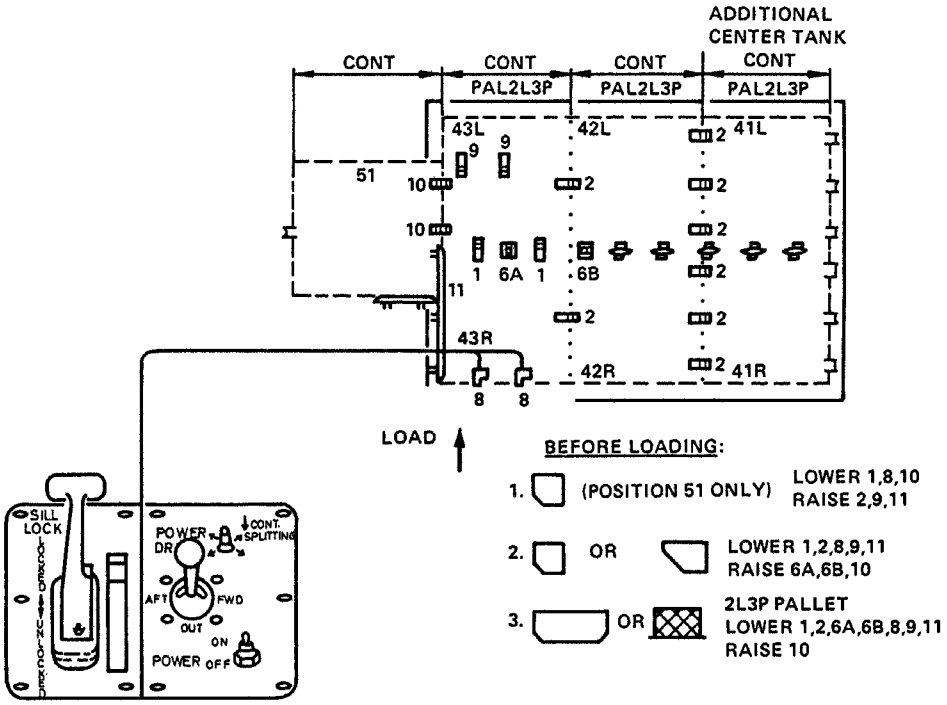
(1) REPEAT B(1) THRU B(5)

– RAISE LATCHES 10
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CUS0 23

Manual Unloading - FWD Cargo Compartment
Figure 039

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES
– OPEN CONTROL PANEL DOOR
– SET "POWER" SWITCH TO "ON"




BEFORE LOADING:

1. (POSITION 51 ONLY) LOWER 1,8,10 RAISE 2,9,11
2. OR LOWER 1,2,8,9,11 RAISE 6A,6B,10
3. OR 2L3P PALLET LOWER 1,2,6A,6B,8,9,11 RAISE 10

A. CONTAINER: HALF WIDTH

(1) MOVE CONTAINER ASSIGNED TO POSITION 51 ONTO BALL MAT AREA
(2) SELECT "IN" AND "AFT" ON JOYSTICK UNTIL CONTAINER IS IN POSITION 51
(3) LOCK IN POSITION BY RAISING LATCHES 10
(4) LOWER GUIDES 9 AND 11

NOTE: WHEN LOADING REMAINING CONTAINERS SINGLY LOAD LEFTHAND ROW (L) FIRST.

(5) MOVE NEXT CONTAINER ONTO BALL MAT AREA
(6) SELECT "IN" ON JOYSTICK UNTIL CONTAINER IS FULLY IN COMPARTMENT

NOTE: WHEN LOADING CONTAINERS IN PAIRS, FILL POSITIONS 43/L/R, CENTER JOY–STICK AND PUSH IN (SPLITTING) UNTIL CONTAINERS ARE LINED UP FOR FWD MOVEMENT.

(7) SELECT "FWD" AND HOLD UNTIL CONTAINER IS IN REQUIRED POSITION
(8) LOCK IN POSITION BY RAISING LATCHES
(9) REPEAT (5) THRU (8) TO LOAD REMAINING POSITIONS
(10) REPEAT (5) AND SELECT "IN" TO LOAD POSITION 43R

B. CONTAINER: FULL WIDTH

(1) MOVE CONTAINER ONTO BALL MAT AREA
(2) REPEAT A(6), A(3), A(5) UNTI DESIRED POSITIONS ARE OCCUPIED

C. PALLET: 2L3P PALLET

(1) REPEAT STEPS B(1) AND B(2)

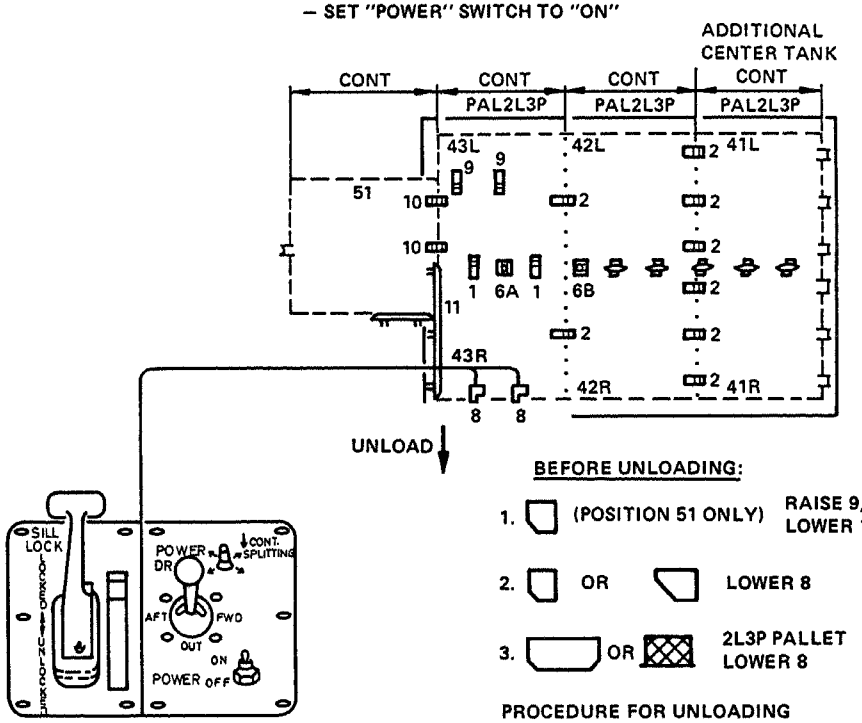
NOTE: IF COMPARTMENT IS NOT TO BE FULLY LOADED
(1) RAISE LATCHES AT THE REQUIRED END POSITION
(2) RAISE LATCHES IN UNOCCUPIED POSITIONS EACH SIDE OF ULD

– RAISE LATCHES 8
– SET "POWER" SWITCH TO "OFF"
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CWF0 25

Powered Loading - AFT Cargo Compartment
Figure 040

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES
– OPEN CONTROL PANEL DOOR
– SET "POWER" SWITCH TO "ON"




BEFORE UNLOADING:

1. (POSITION 51 ONLY) RAISE 9,2 (AFT), 11 LOWER 1,6A,8,10
2. OR LOWER 8
3. OR 2L3P PALLET LOWER 8

PROCEDURE FOR UNLOADING A FULL COMPARTMENT

A. CONTAINER: HALF WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL CONTAINER AT POSITION 43R MOVES ONTO LOADER
(3.1) LOWER LATCHES 1 AND OVERRIDABLE SPLITTER 6A
(3.2) SELECT "OUT" ON JOYSTICK AND HOLD UNTIL CONTAINER AT POSITION 43L MOVES ONTO POSITION 43R
(4) REPEAT (1), (2) FOR CONTAINER AT POSITION 43L
(5) LOWER LATCHES AT NEXT CONTAINER (OR CONTAINERS IF UNLOADING IN PAIRS)
(6) SELECT "AFT" AND HOLD UNTIL CONTAINER (OR CONTAINERS) LINE UP WITH DOORWAY
(7) REPEAT (1)
(8) SELECT "OUT" AND HOLD UNTIL CONTAINER MOVES ONTO LOADER
(9) REPEAT (5) THRU (8) UNTIL COMPARTMENT IS EMPTY, EXCEPT FOR POSITION 51
(10) RAISE GUIDES 9, 11, AFT LATCHES 2 AND LOWER LATCHES 10
(11) MOVE CONTAINER FROM POSITION 51 ONTO BALL MAT AREA
(12) REPEAT (1), (8)

B. CONTAINER: FULL WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) SELECT "OUT" ON JOYSTICK UNTIL CONTAINER IN DOORWAY MOVES ONTO LOADER
(3) LOWER LATCHES AT NEXT CONTAINER
(4) SELECT "AFT" AND HOLD UNTIL CONTAINER IS IN LINE WITH DOORWAY
(5) REPEAT (1), (2)
(6) REPEAT (3), (4), (1), (2)

C. PALLET: 2L3P PALLET

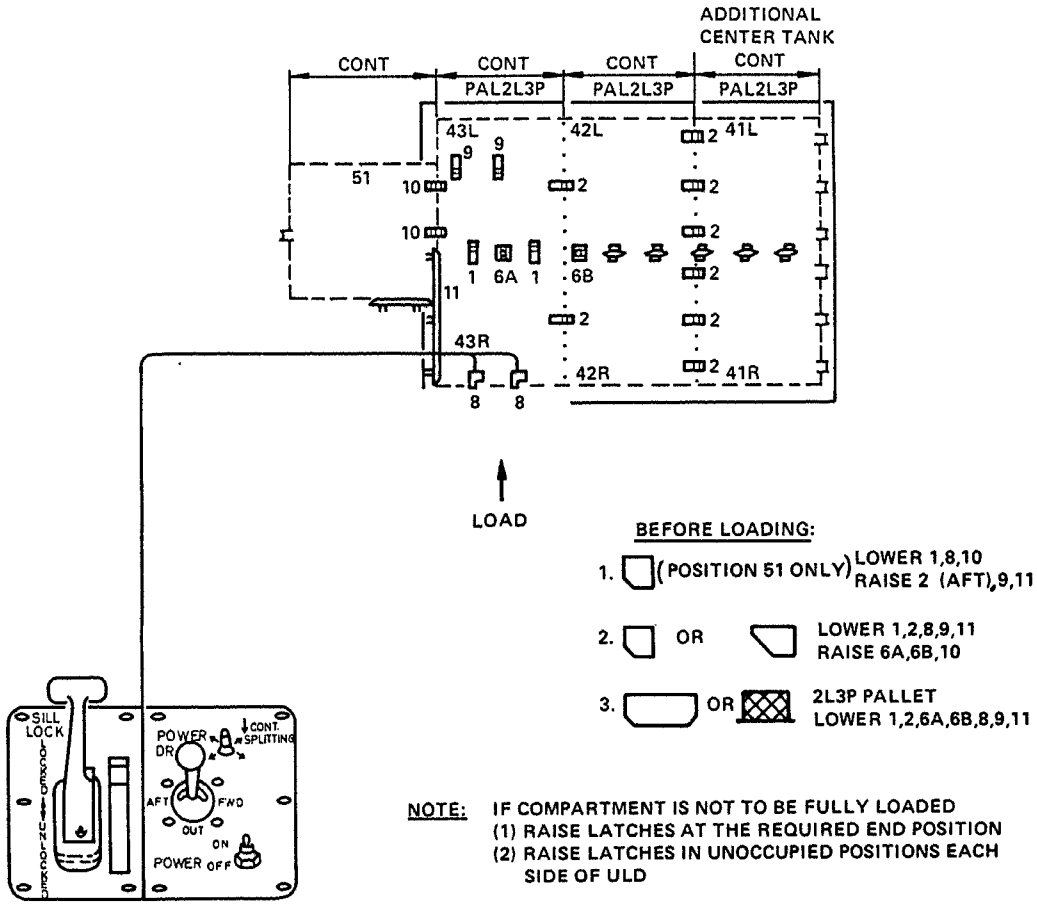
(1) REPEAT B (1) THRU B (6)

– RAISE LATCHES 8
– SET "POWER" SWITCH TO "OFF"
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 CYT0 25

Powered Unloading - AFT Cargo Compartment
Figure 041

– OPEN COMPARTMENT DOOR
– SET UP LATCHES/GUIDES




BEFORE LOADING:

1. (POSITION 51 ONLY) LOWER 1,8,10 RAISE 2 (AFT),9,11
2. OR LOWER 1,2,8,9,11 RAISE 6A,6B,10
3. OR 2L3P PALLET LOWER 1,2,6A,6B,8,9,11

NOTE: IF COMPARTMENT IS NOT TO BE FULLY LOADED
(1) RAISE LATCHES AT THE REQUIRED END POSITION
(2) RAISE LATCHES IN UNOCCUPIED POSITIONS EACH SIDE OF ULD

A. CONTAINER: HALF/FULL WIDTH

NOTE: WHEN LOADING HALF–WIDTH CONTAINERS, LOAD LEFT–HAND ROW (L) FIRST.

(1) PUSH ASSIGNED CONTAINER INTO POSITION 51
(2) LOCK IN POSITION BY RAISING LATCHES 10
(3) LOWER GUIDES 9, 11 AND RAISE GUIDES 6A, 6B
(4) PUSH REMAINING CONTAINERS INTO POSITION
(5) REPEAT (2) FOR EACH CONTAINER

B. PALLET: 2L3P PALLET

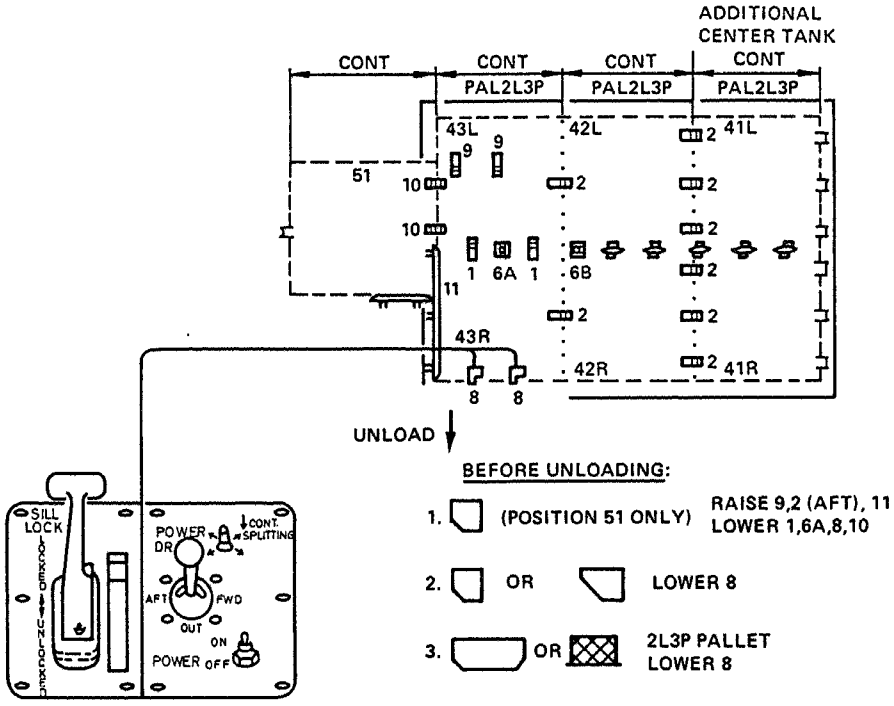
(1) REPEAT A (3) THRU A (5)

– RAISE LATCHES 8
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 DAF0 25

Manual Loading - AFT Cargo Compartment
Figure 042

– OPEN COMPARTMENT DOOR
– OPEN CONTROL PANEL DOOR
– SET UP LATCHES/GUIDES




A. CONTAINER: HALF WIDTH

(1) SELECT "UNLOCKED" ON "SILL–LOCK" HANDLE AND RELEASE
(2) CONTAINER AT POSITION 43R – MOVE FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT CONTAINER IN RIGHT–HAND ROW (R)
(4) MOVE CONTAINER TO LINE UP WITH DOORWAY
(5) REPEAT (1) THRU (4) TO UNLOAD RIGHT–HAND ROW (R)
(5) LOWER LATCHES 1 AND OVERRIDABLE SPLITTER 6A
(7) MOVE CONTAINER FROM POSITION 43L TO 43R
(8) REPEAT (1), (2)
(9) LOWER LATCHES AT NEXT CONTAINER IN LEFT–HAND ROW (L)
(10) REPEAT (4), (7), (1), (2) AND (9) UNTIL COM–PARTMENT IS EMPTY, EXCEPT FOR POSITION 51
(11) RAISE GUIDES (9), 11, AFT LATCHES (2) AND LOWER LATCHES (10)
(12) MOVE CONTAINER FROM POSITION 51 TO LINE UP WITH DOORWAY
(13) REPEAT (1) AND MOVE CONTAINER FROM COMPARTMENT

B. CONTAINER: FULL WIDTH

(1) REPEAT A (1)
(2) CONTAINER AT POSITION 43L/R – MOVE FROM COMPARTMENT
(3) LOWER LATCHES AT NEXT CONTAINER
(4) REPEAT A (4)
(5) REPEAT A (1), B (2), B (3), A (4)

C. PALLET: 2L3P PALLET

(1) REPEAT B (1) THRU B (5)

– RAISE LATCHES 8
– CLOSE CONTROL PANEL DOOR
– CLOSE COMPARTMENT DOOR

BM3 25 52 00 0 DCF0 25

Manual Unloading - AFT Cargo Compartment
Figure 043

1. Adjustment

A. The adjustment procedure of the latches is included in the corresponding sections. The overall cargo conveyance system needs no further adjustment.

2. Operational Test

NOTE : The operational test contains the operation of all items which must be tested before a functional test of the loading system can be performed.

A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform, 2.7 m (9 ft.) |
| (2) | Circuit Breaker Safety Clips and Tags |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

B. Procedure

(1)Job Set Up

(Ref. Fig. 501)

R **ON A/C 001-100, 105-200,

(Ref. Fig. 502)

**ON A/C 101-200,

(Ref. Fig. 503)

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

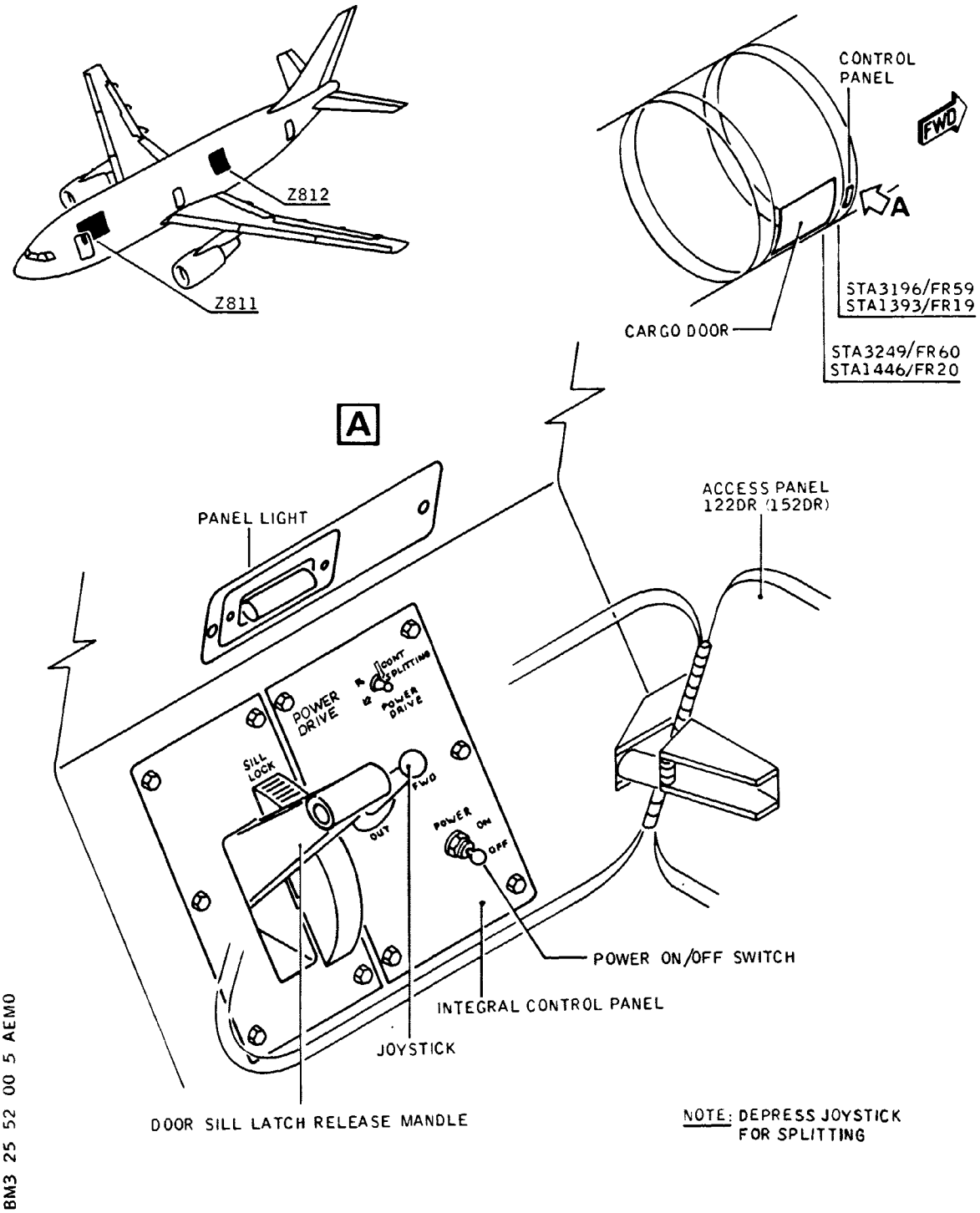
(Ref. Fig. 504)

**ON A/C 101-200,

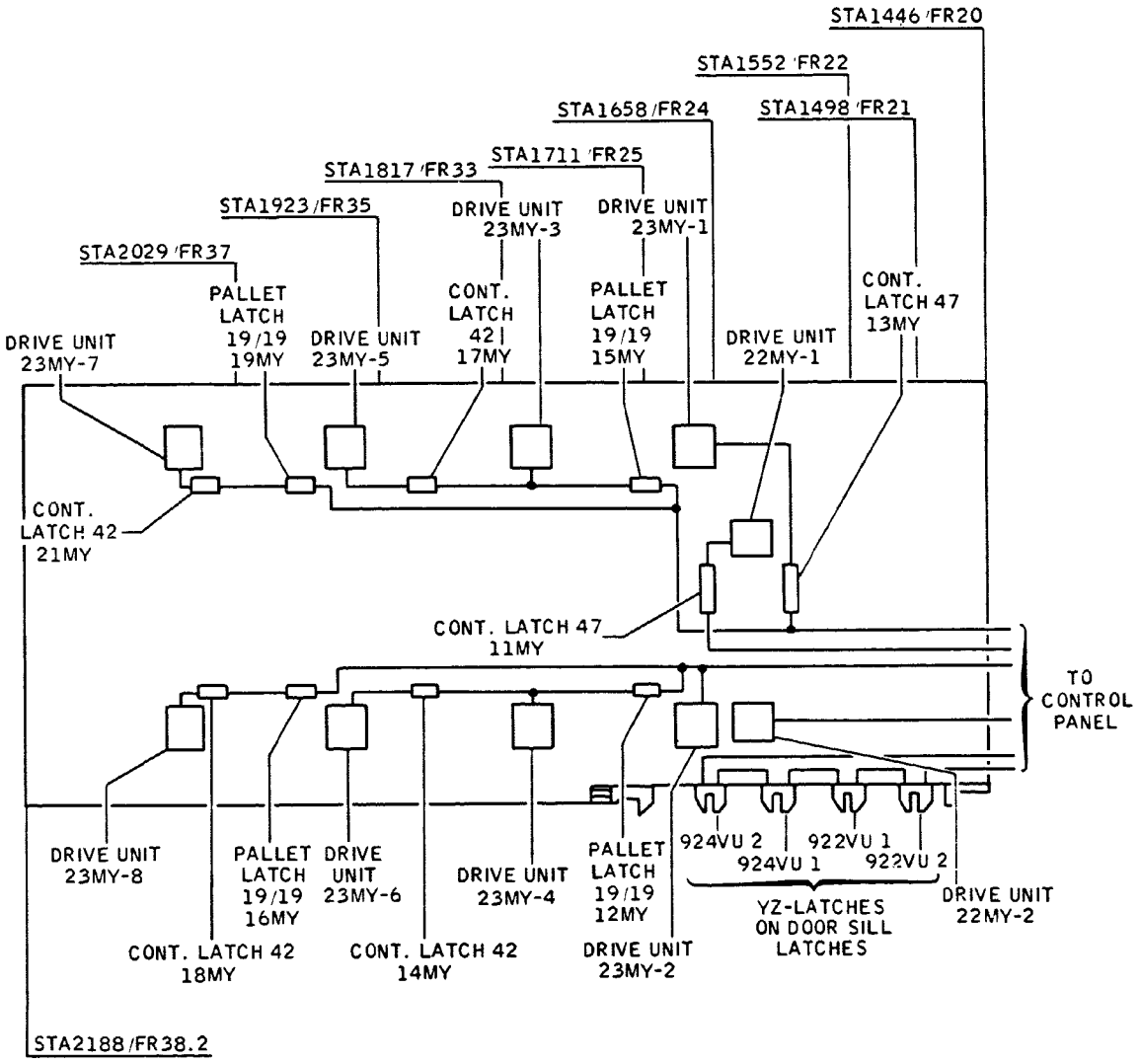
(Ref. Fig. 505)

**ON A/C 001-100,

(Ref. Fig. 506)

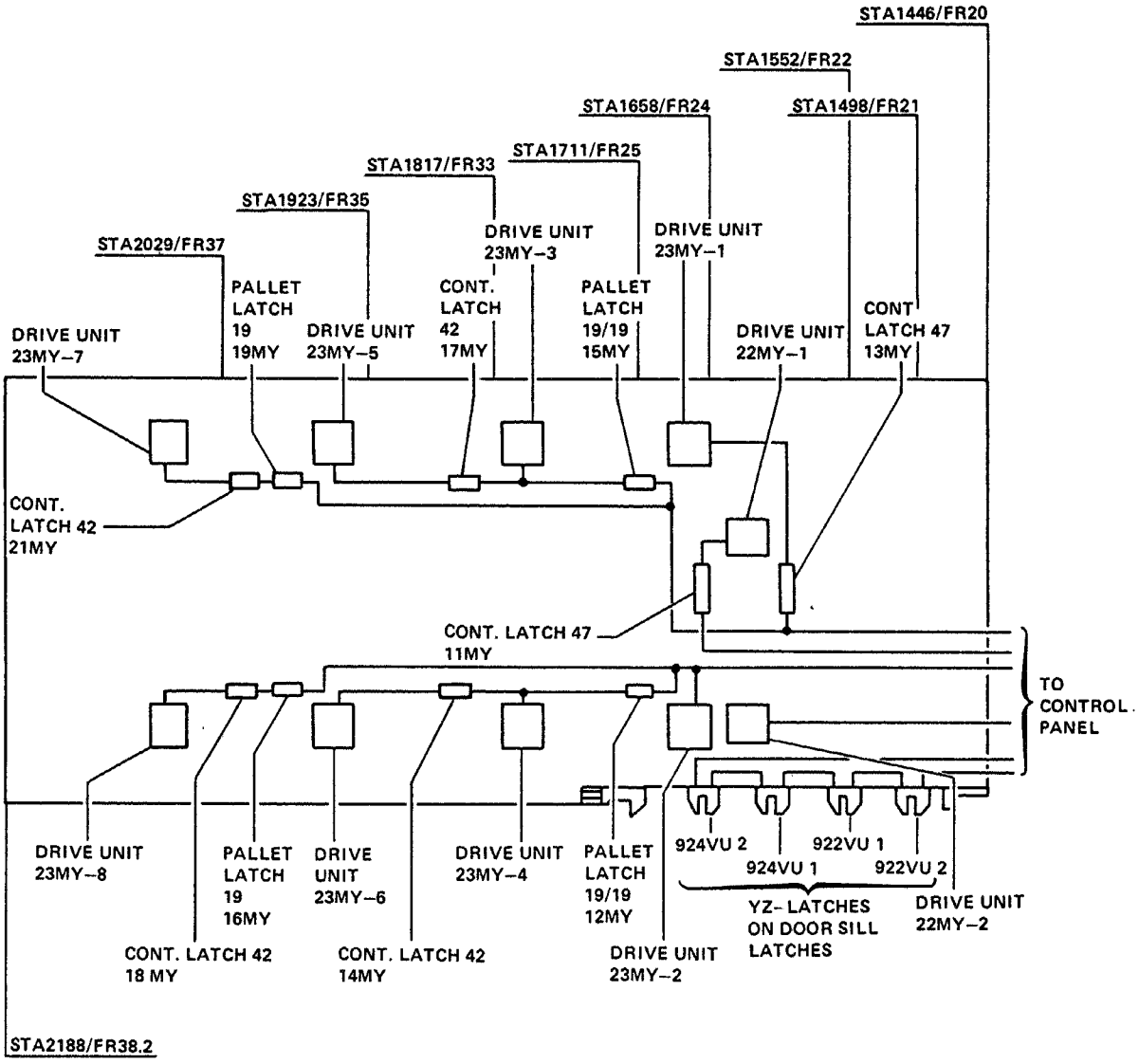



Cargo Conveyance System - Control Panel
Figure 501




BM3 25 52 00 5 AAM0

FWD Cargo Compartment Conveyance System
Component Location
Figure 502

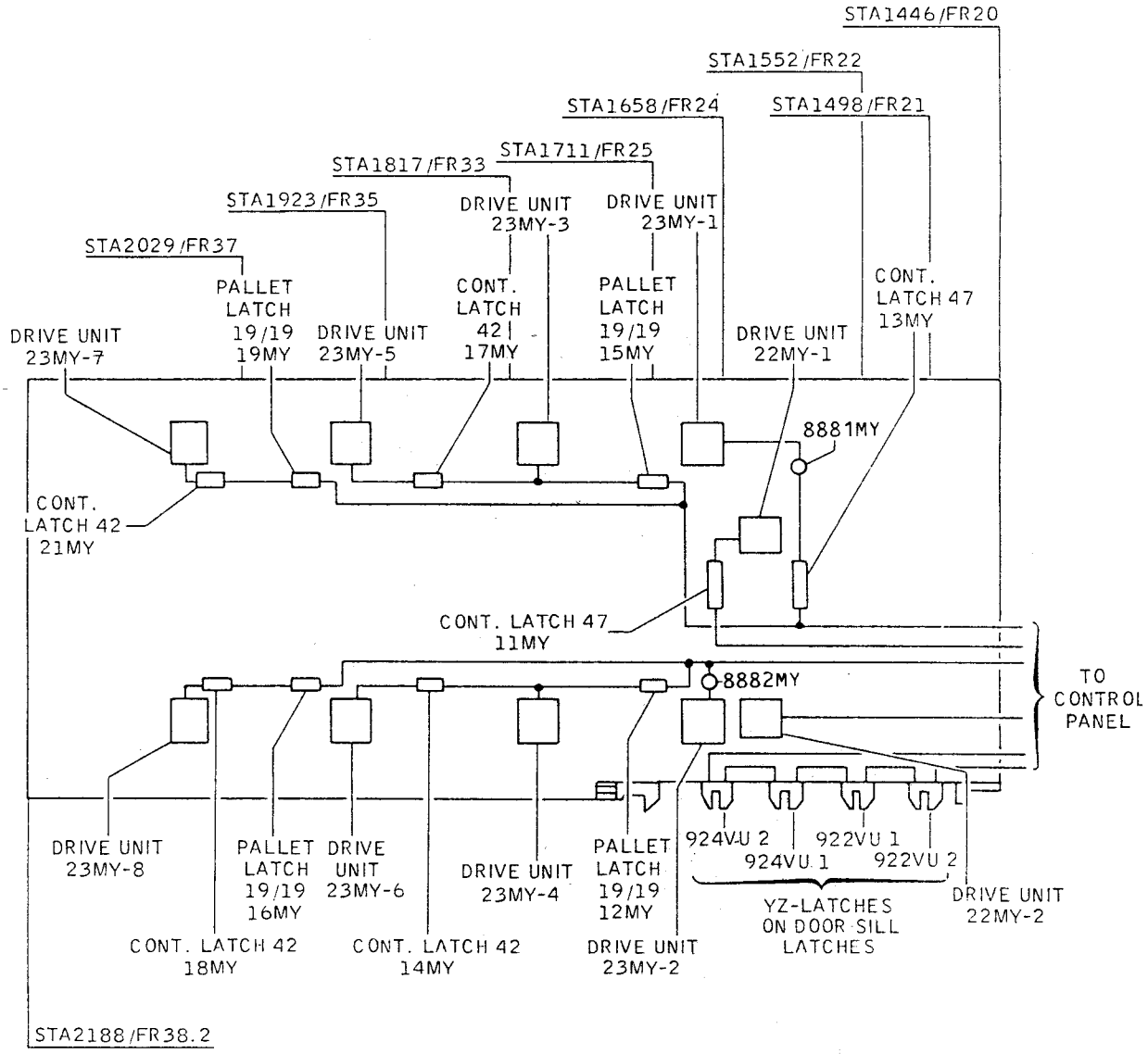



BM3 25 52 00 5 AAU0 –15

FWD Cargo Compartment Conveyance System
Component Location
Figure 503

R EFFECTIVITY: 101-200,

PIA

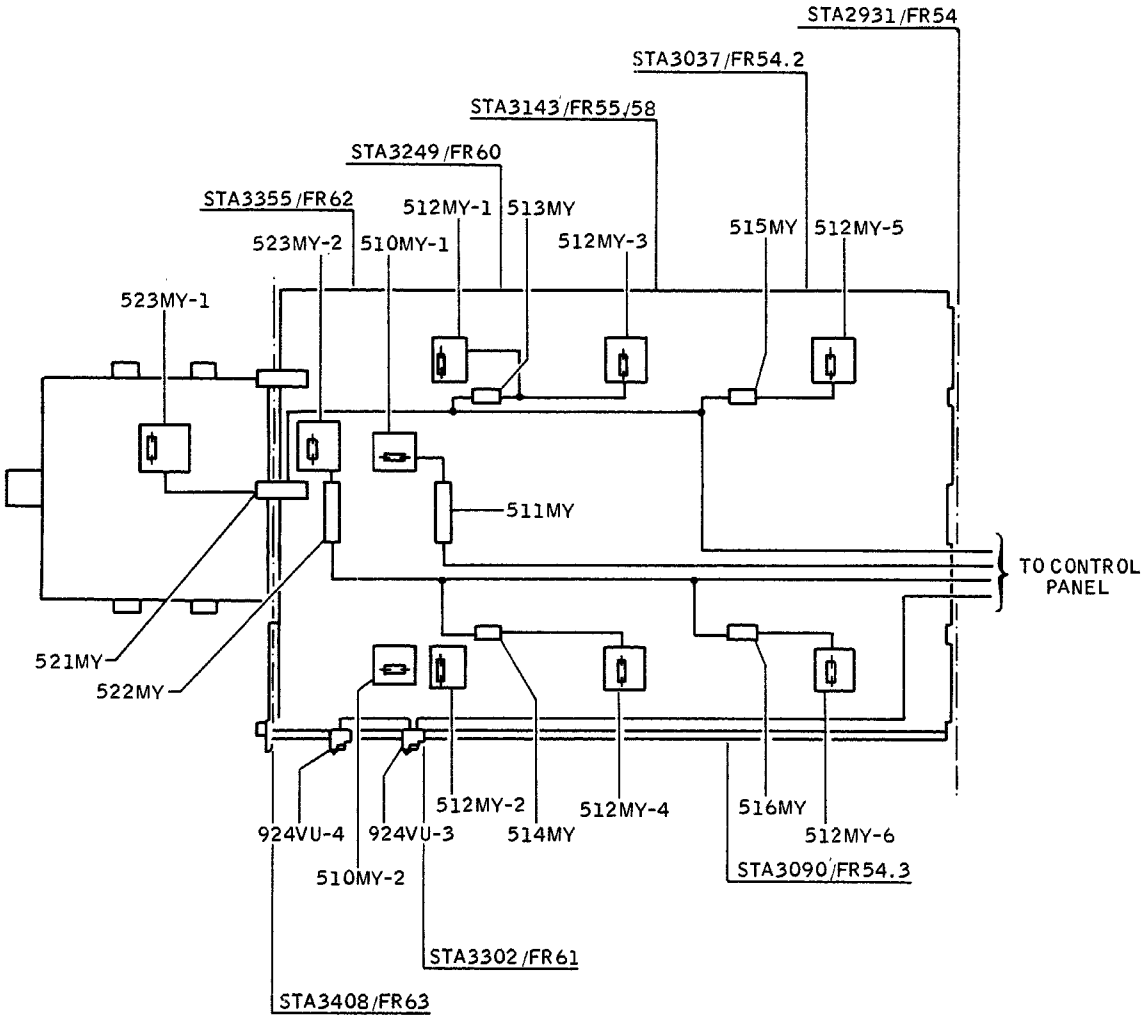



BM6 25 52 00 5 AAC0 00

FWD Cargo Compartment Conveyance System
Component Location
Figure 504

R EFFECTIVITY: 001-104,

PIA

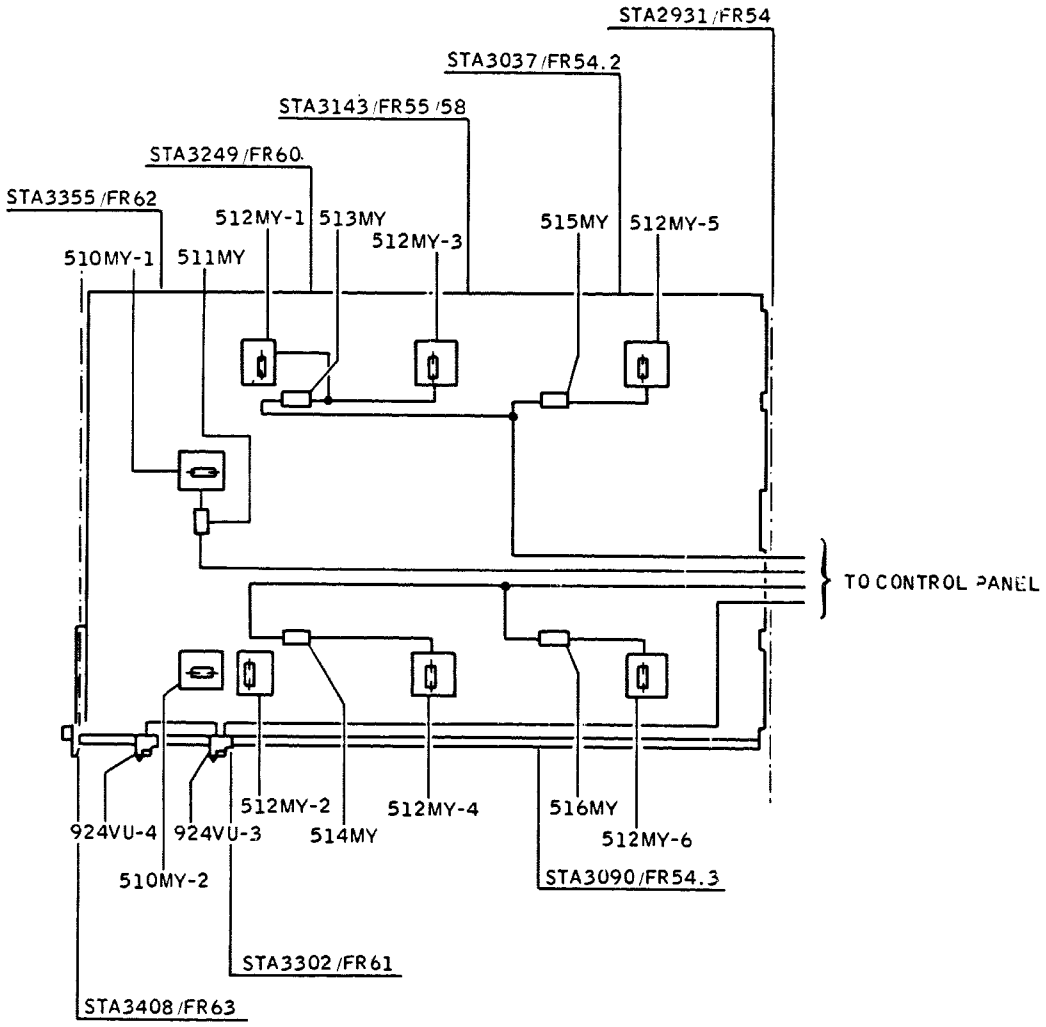



BM3 25 52 00 5 ACM0

AFT Cargo Compartment Conveyance System
Component Location
Figure 505

R EFFECTIVITY: 101-200,

PIA




BM3 25 52 00 5 ACU0

AFT Cargo Compartment Conveyance System
Component Location
Figure 506

R EFFECTIVITY: 001-100,

PIA



Printed in France

**ON A/C 001-100,

Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 507)

R **ON A/C 101-104,

R Post SB 25-2079 For A/C 101-104,

(Ref. Fig. 508)

**ON A/C ALL

(a)Position access platform.
(b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(c)Make certain that electronics racks ventilation is correct.
(d)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(e)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(f)Open, safety and tag the following circuit breakers:

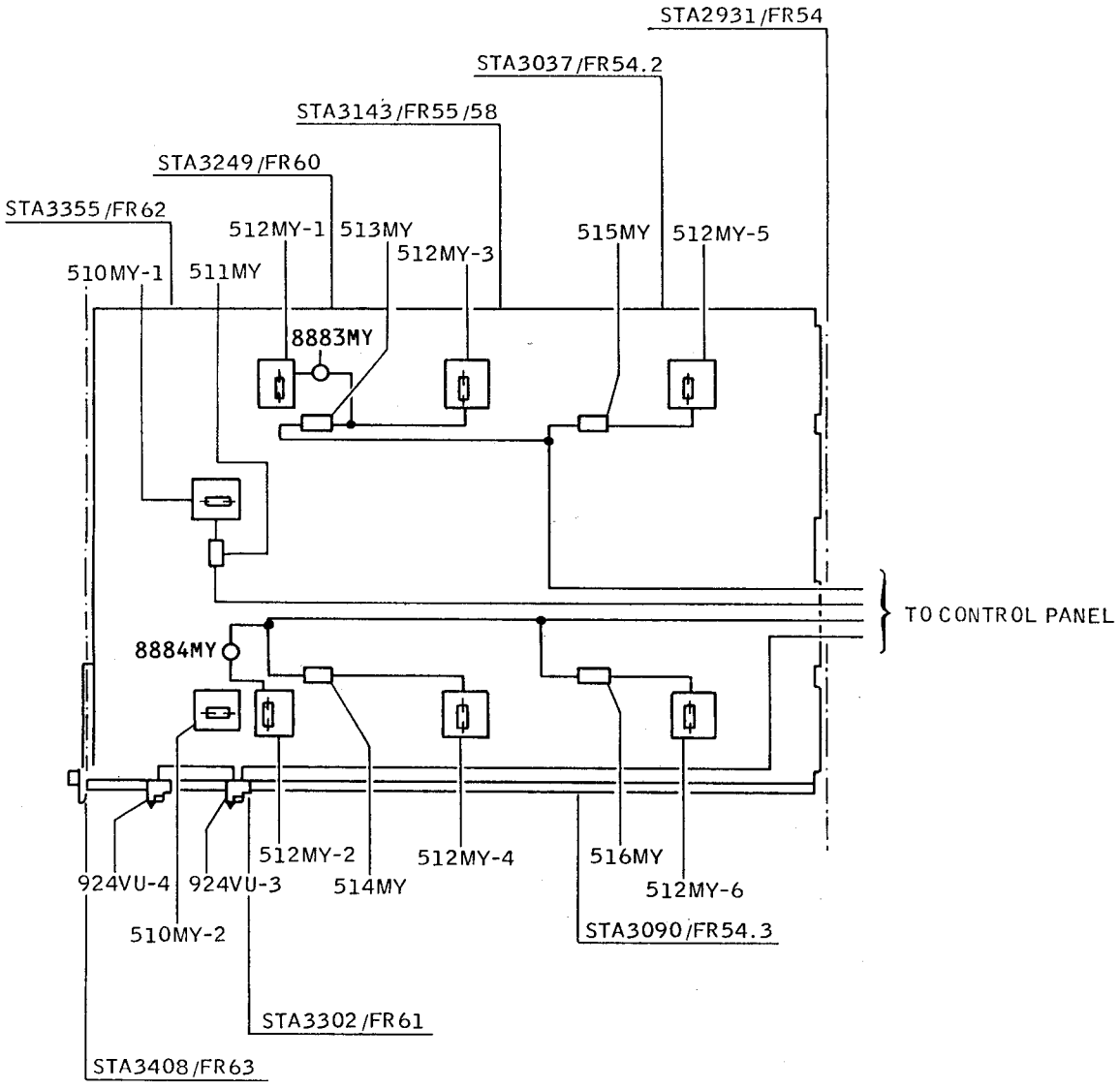
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

(g)Make certain that the following circuit breakers are closed:

** FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | POWER DRIVE UNITS FWD/AFT DIRECTION | 2MY | |
| 921VU | POWER DRIVE UNITS FWD/AFT DIRECTION | 3MY | |
| 921VU | POWER DRIVE UNITS IN AND OUT DIRECTION | 4MY | |
| 921VU | POWER DRIVE UNITS IN AND OUT DIRECTION | 5MY | |
| 921VU | CONTROL FUSE | 6MY | |

** AFT Cargo Compartment

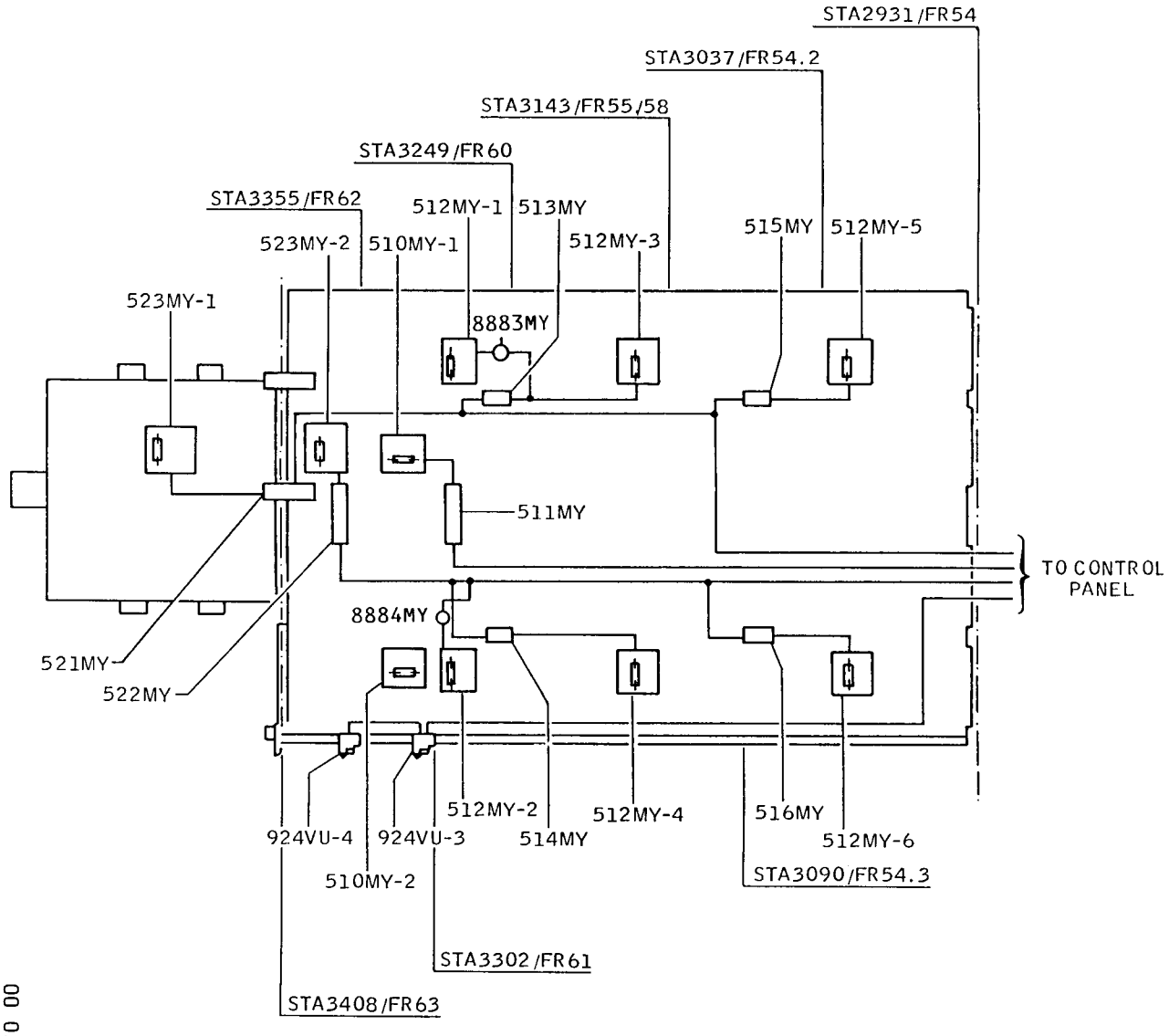



BM6 25 52 00 5 ACCO 00

AFT Cargo Compartment Conveyance System
Component Location
Figure 507

R EFFECTIVITY: 001-100,

PIA




BM6 25 52 00 5 ACF0 00

AFT Cargo Compartment Conveyance System
Component Location
Figure 508

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | POWER DRIVE UNITS FWD/AFT DIRECTION | 502MY | |
| 923VU | POWER DRIVE UNITS FWD/AFT DIRECTION | 503MY | |
| 923VU | POWER DRIVE UNITS IN AND OUT DIRECTION | 504MY | |
| 923VU | POWER DRIVE UNITS IN AND OUT DIRECTION | 505MY | |
| 923VU | CONTROL FUSE | 506MY | |

(h)Make certain that **FWD** and **AFT** cargo compartments are free from foreign objects and debris.

(2)Test

Initial conditions:

- Correct electrical power supply (115VAC, 28VDC).
- Forward services ventilation system in operation.
- All container latches and pallet latches lowered.
- **SILL LOCK** handle in **LOCKED** position.

(a)Control Panel (Ref. Fig. 501)

| ACTION | RESULT |
|---|---|
| 1. In door sill area<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On cargo loading system control panel<br>- Set **POWER** switch to **ON**. | Cargo conveyance system is ready for operation. |
| 3. On control panel<br>- Move **SILL LOCK** handle fully down to **UNLOCKED** position and then release. | Handle should take approximately 8 sec. to move from **UNLOCKED** to **LOCKED** position. |

(b)Door Sill Latches

| ACTION | RESULT |
|---|---|
| 1. On control panel<br>- Move **SILL LOCK** handle fully down to **UNLOCKED** position and hold.<br>- Release **SILL LOCK** handle. | In door sill area<br>- Y-latch of door sill latches are fully lowered below level of guide-in roller top<br>- Y-latch of door sill latches raise and lock in raised position in approximately 8 sec. |
| 2. In door sill area<br>- Raise manually-operated YZ-latch of door sill latches.<br>- Depress lever **DOWN TO UNLOCK** at | YZ-latches are locked.<br><br>YZ-latch is unlocked and lowers |

| ACTION | RESULT |
|---|---|
| door sill latches. | under its own weight. |

(c)Retractable Y-Guides

| ACTION | RESULT |
|---|---|
| 1. On retractable Y-guide<br>- Depress PUSH lever and push down on Y-guide.<br>- Move PULL lever in direction of guide hinge | <br>Y-guide lowers and is located below top of housing<br>Y-guide raises and is locked in raised positions. |

(d)Pallet Latches 19 and 19/19

| ACTION | RESULT |
|---|---|
| 1. On pallet latches<br>- Raise latch elements<br>- Unlock and lower latch elements | <br>Latch elements are locked in raised position<br>Latch elements are positioned below top level of roller tracks. |

(e)Container Latches 42 and 47

| ACTION | RESULT |
|---|---|
| 1. On container latches 42 and 47<br>- Raise latch elements<br>- Unlock and lower latch elements. | <br>Latch elements are locked in raised position<br>Latch elements are positioned below top level of roller tracks. |

(f)Overridable YZ-Latches

| ACTION | RESULT |
|---|---|
| 1. On overridable YZ-latches<br>- Push down on top of horns<br>- Release pressure. | <br>Latches fold down and are positioned below top level of roller track<br>Latches raise by spring pressure. |

(g)Retractable Container Guide

| ACTION | RESULT |
|---|---|
| 1. On retractable container guide<br>- Raise latch elements<br>- Unlock and lower latch elements. | <br>Latch elements are locked in raised position<br>Latch elements are positioned below |

| ACTION | RESULT |
|---|---|
| | top level of roller tracks. |

R **ON A/C 101-104,

(h)Retractable Door Sill Guide

| ACTION | RESULT |
|---|---|
| 1. On retractable door sill guide<br>- Raise guide elements | Guide elements are locked in raised position |
| - Unlock and lower guide elements. | Guide elements are positioned below top level of ball mats. |

**ON A/C ALL

(3)Close-Up
As for Functional Test (Ref. Para. 3.B.(3)).

3. Functional Test
NOTE : The operational test must be performed before the functional test.

A. Equipment and materials
As for Operational Test (Ref. Para. 2.A.)

B. Procedure
(1)Job Set-Up
As for Operational Test (Ref. Para. 2.B.(1)).
(2)Test
(a)Simulated Loading in FWD Cargo Compartment

R **ON A/C 001-100, 105-200,

(Ref. Fig. 502, 501)

**ON A/C 101-200,

(Ref. Fig. 503, 501)

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

(Ref. Fig. 504, 501)

**ON A/C ALL

Initial conditions:
- On FWD Cargo loading system control panel
  - Control panel light extinguished.
  - SILL LOCK handle in LOCKED position.

  - POWER switch in OFF position.
- In FWD cargo compartment
  - All container latches and pallet latches lowered.
  - All Y- and YZ-latches on door sill latches to be raised.

R **ON A/C 101-200,

| ACTION | RESULT |
|---|---|
| 1. In FWD cargo compartment<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On control panel<br>- Select POWER switch to ON. | Cargo conveyance system ready for operation. |
| 3. On control panel<br>- Select joystick to FWD and hold. | In FWD cargo compartment<br>- Longitudinal power drive units rotate in FWD direction. |
| 4. In FWD cargo compartment<br>- Raise container latches 42 18MY and 21MY located between FR37 and FR38. | - Power drive units 23MY8 and 23MY7 located between FR37 and FR38 stop. |
| 5. - Lower container latches 42 18MY and 21MY. | - Power drive units 23MY8 and 23MY7 start. |
| 6. Raise pallet latches 19, 16MY and 19MY located at FR36. | Power drive units 23MY8 and 23MY7 located between FR37 and FR38 stop. |
| 7. Lower pallet latches 19, 16MY and 19MY. | Power drive units 23MY8 and 23MY7 start. |
| 8. Raise container latches 42, 14MY and 17MY located between FR33 and FR34. | Power drive units 23MY6 and 23MY5 located between FR35 and FR36 stop. |
| 9. Lower container latches 42, 14MY and 17MY. | Power drive units 23MY6 and 23MY5 start. |
| 10.Raise pallet latches 19/19, 12MY | Power drive units 23MY4 and 23MY3, |

| ACTION | RESULT |
|---|---|
| and 15MY located between FR24 and FR25. | located between FR26/32 and FR33, and power drive units 23MY6 and 23MY5, located between FR35 and FR36, stop. |
| 11. Lower pallet latches 19/19, 12MY and 15MY. | Power drive units 23MY4, 23MY3, 23MY6 and 23MY5 start. |
| 12. Raise container latch 47, 13MY located between FR22 and FR23 on compartment centerline. | Power drive unit 23MY1, located between FR24 and FR25 on LH side of compartment, stops. |
| 13. Lower container latch 47, 13MY. | Power drive unit 23MY1 starts. |
| 14. On control panel<br>- Centralize joystick, select to AFT and hold. | In FWD cargo compartment<br>- All longitudinal power drive units rotate in AFT direction. |
| 15. In FWD cargo compartment<br>- Raise and lower manually-operated YZ-latch of door sill latches in turn. | All longitudinal power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 16. On control panel<br>- Centralize joystick select to IN and hold. | In FWD cargo compartment<br>- All transverse power drive units rotate in IN direction. |
| 17. In FWD cargo compartment<br>- Raise container latch 47, 11MY located on compartment center-line at FR24 | Power drive unit 22MY1, located LH of cargo compartment centerline between FR23 and FR24, stops. |
| 18. Lower container latch 47, 11MY. | Power drive unit 22MY1 starts. |
| 19. On control panel<br>- Centralize joystick and depress. | In FWD cargo compartment<br>- Power drive unit 22MY1, located between FR23 and FR24 LH of aircraft centerline, rotates in IN direction<br>- Power drive unit 22MY2 located between FR23 and FR24 RH of cargo compartment centerline, rotates in OUT direction. |
| 20. Release pressure on joystick. | Power drive units 22MY1 and 22MY2 stop. |
| 21. Select joystick to OUT and hold. | Power drive units 22MY1 and 22MY2 rotate in OUT direction. |

| ACTION | RESULT |
|---|---|
| 22. In FWD cargo compartment<br>- Raise and lower manually-operated YZ-latch of door sill latches in turn. | Transverse power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 23. Raise manually-operated YZ-latch of door sill latches. | On control panel<br>- Control panel light goes off. |
| 24. On control panel<br>- Select POWER switch to OFF. | Cargo conveyance system is de-energized. |

R **ON A/C 001-100, 105-200,

| ACTION | RESULT |
|---|---|
| 1. In FWD cargo compartment<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On control panel<br>- Select POWER switch to ON. | Cargo conveyance system ready for operation. |
| 3. On control panel<br>- Select joystick to FWD and hold. | In FWD cargo compartment<br>- Longitudinal power drive units rotate in FWD direction. |
| 4. In FWD cargo compartment<br>- Raise container latches 42 18MY and 21MY located between FR37 and FR38. | - Power drive units 23MY8 and 23MY7 located between FR37 and FR38 stop. |
| 5. - Lower container latches 42 18MY and 21MY. | - Power drive units 23MY8 and 23MY7 start. |
| 6. Raise pallet latches 19/19, 16MY and 19MY located at FR36. | - Power drive units 23MY8 and 23MY7 located between FR37 and FR38 stop. |
| 7. Lower pallet latches 19/19, 16MY and 19MY. | Power drive units 23MY8 and 23MY7 start. |
| 8. - Raise container latches 42, 14MY and 17MY located between FR34 and FR35. | - Power drive units 23MY5 and 23MY6 located between FR35 and FR36 stop. |
| 9. - Lower container latches 42 | - Power drive units 23MY5 and 23MY6 |

| ACTION | RESULT |
|---|---|
| 14MY and 17MY. | start. |
| 10. Raise pallet latches 19/19, 12MY and 15MY located between FR24 and FR25. | Power drive units 23MY4 and 23MY3, located between FR26/32 and FR33, and power drive units 23MY6 and 23MY5, located between FR35 and FR36, stop. |
| 11. Lower pallet latches 19/19, 12MY and 15MY. | Power drive units 23MY4, 23MY3, 23MY6 and 23MY5 start. |
| 12. Raise container latch 47, 13MY located between FR22 and FR23 on compartment centerline. | Power drive unit 23MY1, located between FR24 and FR25 on LH side of compartment, stops. |
| 13. Lower container latch 47, 13MY. | Power drive unit 23MY1 starts. |
| 14. On control panel<br>- Centralize joystick, select to AFT and hold. | In FWD cargo compartment<br>- All longitudinal power drive units rotate in AFT direction. |
| 15. In FWD cargo compartment<br>- Raise and lower manually-operated YZ-latch of door sill latches in turn. | All longitudinal power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 16. On control panel<br>- Centralize joystick select to IN and hold. | In FWD cargo compartment<br>- All transverse power drive units rotate in IN direction. |
| 17. In FWD cargo compartment<br>- Raise container latch 47, 11MY located on compartment center-line at FR24 | Power drive unit 22MY1, located LH of cargo compartment centerline between FR23 and FR24, stops. |
| 18. Lower container latch 47, 11MY. | Power drive unit 22MY1 starts. |
| 19. On control panel<br>- Centralize joystick and depress. | In FWD cargo compartment<br>- Power drive unit 22MY1, located between FR23 and FR24 LH of aircraft centerline, rotates in IN direction<br>- Power drive unit 22MY2 located between FR23 and FR24 RH of cargo compartment centerline, rotates in OUT direction. |
| 20. Release pressure on joystick. | Power drive units 22MY1 and 22MY2 stop. |

| ACTION | RESULT |
|---|---|
| 21.Select joystick to OUT and hold. | Power drive units 22MY1 and 22MY2 rotate in OUT direction. |
| 22.In FWD cargo compartment<br>- Raise and lower manually-operated YZ-latch of door sill latches in turn. | Transverse power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 23.Raise manually-operated YZ-latch of door sill latches. | On control panel<br>- Control panel light goes off. |
| 24.On control panel<br>- Select POWER switch to OFF. | Cargo conveyance system is de-energized. |

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

| ACTION | RESULT |
|---|---|
| 1. In FWD cargo compartment<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On control panel<br>- Select POWER switch to ON. | Cargo conveyance system ready for operation. |
| 3. On control panel<br>- Select joystick to FWD and hold. | In FWD cargo compartment<br>- Longitudinal power drive units rotate in FWD direction.<br><br>- Longitudinal power drive units 23MY-1 and 23MY-2 do not run. |
| 4. In ball mat area<br>- Press and hold interlock switch 8881MY, located at FR24/LH. | In ball mat area<br>- Longitudinal power drive unit 23MY-1 located at FR24/LH starts. |
| 5. Raise container latch 47, 13MY, located on compartment center line between FR22 and FR23. | Power drive unit 23MY1 stops. |
| 6. Lower container latch 47, 13MY. | Power drive unit 23MY1 starts. |

| ACTION | RESULT |
|---|---|
| 7. Release interlock switch 8881MY. | Longitudinal power drive unit 23MY-1 stops. |
| 8. Press and hold interlock switch 8882MY, located at FR24/RH. | Longitudinal power drive unit 23MY-2 located at FR24/RH starts. |
| 9. Release interlock switch 8882MY. | Longitudinal power drive unit 23MY-2 stops. |
| 10. In FWD cargo compartment<br>- Raise container latches 42 18MY and 21MY located between FR37 and FR38. | - Power drive units 23MY8 and 23MY7 located between FR37 and FR38 stop. |
| 11. - Lower container latches 42 18MY and 21MY. | - Power drive units 23MY8 and 23MY7 start. |
| 12. Raise pallet latches 19/19, 16MY and 19MY located at FR36. | - Power drive units 23MY8 and 23MY7 located between FR37 and FR38 stop. |
| 13. Lower pallet latches 19/19, 16MY and 19MY. | Power drive units 23MY8 and 23MY7 start. |
| 14. - Raise container latches 42, 14MY and 17MY located between FR34 and FR35. | - Power drive units 23MY5 and 23MY6 located between FR35 and FR36 stop. |
| 15. - Lower container latches 42 14MY and 17MY. | - Power drive units 23MY5 and 23MY6 start. |
| 16. Raise pallet latches 19/19, 12MY and 15MY located between FR24 and FR25. | Power drive units 23MY4 and 23MY3, located between FR26/32 and FR33, and power drive units 23MY6 and 23MY5, located between FR35 and FR36, stop. |
| 17. Lower pallet latches 19/19, 12MY and 15MY. | Power drive units 23MY4, 23MY3, 23MY6 and 23MY5 start. |
| 18. On control panel<br>- Centralize joystick, select to AFT and hold. | In FWD cargo compartment<br>- Longitudinal power drive units rotate in AFT direction.<br>- Longitudinal power drive units 23MY-1 and 23MY-2 located at FR24 do not run. |
| 19. In ball mat area<br>- Press and hold interlock switches 8881MY and 8882MY | In ball mat area<br>- Longitudinal power drive units 23MY-1 and 23MY-2 starts. |

| ACTION | RESULT |
|---|---|
| located at FR24. | |
| 20. In FWD cargo compartment<br>- Raise and lower manually-operated YZ-latch of door sill latches in turn. | All longitudinal power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 21. In ball mat area<br>- Release interlock switches 8881MY and 8882MY. | Longitudinal power drive units 29MY-1 and 29MY-2 stops. |
| 22. On control panel<br>- Centralize joystick select to IN and hold. | In FWD cargo compartment<br>- All transverse power drive units rotate in IN direction. |
| 23. In FWD cargo compartment<br>- Raise container latch 47, 11MY located on compartment center-line at FR24 | Power drive unit 22MY1, located LH of cargo compartment centerline between FR23 and FR24, stops. |
| 24. Lower container latch 47, 11MY. | Power drive unit 22MY1 starts. |
| 25. On control panel<br>- Centralize joystick and depress. | In FWD cargo compartment<br>- Power drive unit 22MY1, located between FR23 and FR24 LH of aircraft centerline, rotates in IN direction<br>- Power drive unit 22MY2 located between FR23 and FR24 RH of cargo compartment centerline, rotates in OUT direction. |
| 26. Release pressure on joystick. | Power drive units 22MY1 and 22MY2 stop. |
| 27. Select joystick to OUT and hold. | Power drive units 22MY1 and 22MY2 rotate in OUT direction. |
| 28. In FWD cargo compartment<br>- Raise and lower manually-operated YZ-latch of door sill latches in turn. | Transverse power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 29. Raise manually-operated YZ-latch of door sill latches. | On control panel<br>- Control panel light goes off. |
| 30. On control panel<br>- Select POWER switch to OFF. | Cargo conveyance system is de-energized. |

**ON A/C ALL

(b)Simulated Loading in AFT cargo compartment

**ON A/C 101-200,

(Ref. Fig. 505, 501)

**ON A/C 001-100,

(Ref. Fig. 506, 501)

**ON A/C 001-100,

Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 507, 501)

R **ON A/C 101-104,

R Post SB 25-2079 For A/C 101-104,

(Ref. Fig. 508, 501)

**ON A/C ALL

Initial conditions:
- On AFT cargo loading system control panel
  - Control panel light extinguished.
  - SILL LOCK handle in LOCKED position.
  - Joystick in center position.
  - POWER switch in OFF position.
- In AFT cargo compartment
  - All container latches lowered.

**ON A/C 001-100,

| ACTION | RESULT |
|---|---|
| 1. In AFT cargo compartment<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On control panel<br>- Select POWER switch to ON. | Cargo conveyance system ready for operation. |
| 3. On control panel | In AFT cargo compartment |

| ACTION | RESULT |
|---|---|
| - Select joystick to FWD and hold. | - Longitudinal power drive units rotate in FWD direction. |
| 4. Centralize joystick, select to AFT and hold. | Longitudinal power drive units rotate in AFT direction. |
| 5. In AFT cargo compartment<br>- Raise container latches 42, 516MY and 515MY located at FR54.3. | Power drive units 512MY6 and 512MY5, located between FR54.1 and FR54.2, stop. |
| 6. Lower container latches 42, 516MY and 515MY. | Power drive units 512MY6 and 512MY5 start. |
| 7. Raise container latches 42, 513MY and 514MY, located at FR60. | Power drive units 512MY1, 512MY3 and 512MY4 located between FR58 and FR61 stop. |
| 8. Lower container latches 42, 513MY and 514MY. | Power drive units 512MY1, 512MY3 and 512MY4 start. |
| 9. Not applicable. | |
| 10. Not applicable. | |
| 11. Not applicable. | |
| 12. Not applicable. | |
| 13. Raise and lower manually-operated YZ-latch of door sill latches in turn. | Longitudinal power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 14. On control panel<br>- Centralize joystick, select to IN and hold. | In AFT cargo compartment<br>- All transverse power drive units rotate in IN direction. |
| 15. In AFT cargo compartment<br>- Raise container latch 47, 511MY, located on compartment center line at FR61. | Power drive unit 510MY1, located between FR61 and FR62 stops. |
| 16. Lower container latch 47, 511MY. | Power drive unit 510MY1 starts. |
| 17. Repeat step 13. for transverse power drive units. | |
| 18. On control panel<br>- Centralize joystick and depress. | In AFT cargo compartment<br>- Power drive unit 510MY1 rotates in |

| ACTION | RESULT |
|---|---|
| | IN direction<br>- Power drive unit 510MY2 rotates in OUT direction. |
| 19. Release pressure on joystick. | Power drive units 510MY1 and 510MY2 stop. |
| 20. Select joystick to OUT and hold. | Power drive units 510MY1 and 510MY2 rotate in OUT direction. |
| 21. Release pressure on joystick. | |
| 22. In door sill area<br>- Raise manually-operated YZ-latch of door sill latches. | On control panel:<br>- Control panel light goes off. |
| 23. On control panel<br>- Select POWER switch to OFF. | Cargo conveyance system de-energized. |

R **ON A/C 101-200,

R NOTE : It is only possible to test the PDU which are not covered by an
R Additional Center Tank(s).

| ACTION | RESULT |
|---|---|
| 1. In AFT cargo compartment<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On control panel<br>- Select POWER switch to ON. | Cargo conveyance system ready for operation. |
| 3. On control panel<br>- Select joystick to FWD and hold. | In AFT cargo compartment<br>- Longitudinal power drive units rotate in FWD direction. |
| 4. Centralize joystick, select to AFT and hold. | Longitudinal power drive units rotate in AFT direction. |
| 5. In AFT cargo compartment<br>- Raise pallet latches 42, 516MY and 515MY located at FR54.3. | Power drive units 512MY6 and 512MY5, located between FR54.1 and FR54.2, stop. |
| 6. Lower pallet latches 42, 516MY and 515MY. | Power drive units 512MY6 and 512MY5 start. |

| ACTION | RESULT |
|---|---|
| 7. Raise container latches 42, 513MY and 514MY, located at FR60. | Power drive units 512MY1, 512MY3 and 512MY4 located between FR58 and FR61 stop. |
| 8. Lower container latches 42, 513MY and 514MY. | Power drive units 512MY1, 512MY3 and 512MY4 start. |
| 9. Raise container latch 47, 522MY, located on aircraft centerline aft of FR62. | Power drive unit 523MY2, located left of aircraft centerline, aft of FR62, stops. |
| 10. Lower container latch 47, 522MY. | Power drive unit 523MY2 starts. |
| 11. Raise RH container-latch 42, 521MY located at FR63. | Power drive unit 523MY1, located on seventh container position, stops. |
| 12. Lower RH container latch 42, 521MY. | Power drive unit 523MY1 starts. |
| 13. Raise and lower manually-operated YZ-latch of door sill latches in turn. | Longitudinal power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 14. On control panel<br>- Centralize joystick, select to IN and hold. | In AFT cargo compartment<br>- All transverse power drive units rotate in IN direction. |
| 15. In AFT cargo compartment<br>- Raise container latch 47, 511MY, located on compartment center line at FR61. | Power drive unit 510MY1, located between FR61 and FR62 stops. |
| 16. Lower container latch 47, 511MY. | Power drive unit 510MY1 starts. |
| 17. Repeat step 13. for transverse power drive units. | |
| 18. On control panel<br>- Centralize joystick and depress. | In AFT cargo compartment<br>- Power drive unit 510MY1 rotates in IN direction<br>- Power drive unit 510MY2 rotates in OUT direction. |
| 19. Release pressure on joystick. | Power drive units 510MY1 and 510MY2 stop. |
| 20. Select joystick to OUT and hold. | Power drive units 510MY1 and 510MY2 rotate in OUT direction. |
| 21. Release pressure on joystick. | |

| ACTION | RESULT |
|---|---|
| 22. In door sill area<br>- Raise manually-operated YZ-latch of door sill latches. | On control panel:<br>- Control panel light goes off. |
| 23. On control panel<br>- Select **POWER** switch to **OFF**. | Cargo conveyance system de-energized. |

R **ON A/C 001-100,

R Post SB 25-2079 For A/C 001-100,

| ACTION | RESULT |
|---|---|
| 1. In **AFT** cargo compartment<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On control panel<br>- Select **POWER** switch to **ON**. | - Cargo conveyance system ready for operation. |
| 3. On control panel<br>- Select joystick to **FWD** and hold. | In **AFT** cargo compartment<br>- Longitudinal power drive units rotate in **FWD** direction.<br>- Longitudinal power drive units 512MY-1 and 512MY-2, located at FR61 do not run. |
| 4. In ball mat area<br>- Press and hold interlock switches 8883MY and 8884MY located at FR60. | In ball mat area<br>- Longitudinal power drive units 512MY-1 and 512MY-2 start . |
| 5. Release interlock switches 8883MY and 8884MY. | Longitudinal power drive units 512MY-1 and 512MY-2 stop. |
| 6. Centralize joystick, select to **AFT** and hold. | Longitudinal power drive units rotate in **AFT** direction.<br>- Longitudinal power drive units 512MY-1 and 512MY-2, located at FR61 do not run. |
| 7. In ball mat area<br>- Press and hold interlock switch 8883MY, located at FR60/LH. | In ball mat area<br>- Longitudinal power drive unit 512MY-1 located at FR61/LH starts. |

| ACTION | RESULT |
|---|---|
| 8. Raise container latch 42, 513MY, located at FR60. | Longitudinal power drive unit 512MY-1 stops. |
| 9. Lower container latch 42, 513MY. | Longitudinal power drive unit 512MY-1 starts. |
| 10. Release interlock switch 8883MY. | Longitudinal power drive unit 512MY-1 stops. |
| 11. Press and hold interlock switch 8884MY, located at FR60/RH. | Longitudinal power drive unit 512MY-2 located at FR61/RH starts. |
| 12. Release interlock switch 8884MY. | Londitudinal power drive unit 512MY-2 stops. |
| 13. In AFT cargo compartment<br>- Raise container latches 42, 516MY and 515MY located at FR54.3. | - Power drive units 512MY6 and 512MY5, located between FR54.1 and FR54.2, stop. |
| 14. Lower container latches 42, 516MY and 515MY. | Power drive units 512MY6 and 512MY5 start. |
| 15. Raise container latches 42, 513MY and 514MY, located at FR60. | Power drive units 512MY3 and 512MY4 located between FR58 and FR61 stop. |
| 16. Lower container latches 42, 513MY and 514MY. | Power drive units 512MY3 and 512MY4 start. |
| 17. Raise and lower manually-operated YZ-latch of door sill latches in turn. | Longitudinal power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 18. On control panel<br>- Centralize joystick, select to IN and hold. | In AFT cargo compartment<br>- All transverse power drive units rotate in IN direction. |
| 19. In AFT cargo compartment<br>- Raise container latch 47, 511MY, located on compartment center line at FR61. | - Power drive unit 510MY1, located between FR61 and FR62 stops. |
| 20. Lower container latch 47, 511MY. | Power drive unit 510MY1 starts. |
| 21. Repeat step 17 for transverse power drive units. | |
| 22. On control panel<br>- Centralize joystick and depress. | In AFT cargo compartment<br>- Power drive unit 510MY1 rotates in |

| ACTION | RESULT |
|---|---|
| | IN direction<br>- Power drive unit 510MY2 rotates in OUT direction. |
| 23.Release pressure on joystick. | Power drive units 510MY1 and 510MY2 stop. |
| 24.Select joystick to OUT and hold. | Power drive units 510MY1 and 510MY2 rotate in OUT direction. |
| 25. Release pressure on joystick. | |
| 26.In door sill area<br>- Raise manually-operated YZ-latch of door sill latches. | On control panel:<br>- Control panel light goes off. |
| 27.On control panel<br>- Select POWER switch to OFF. | - Cargo conveyance system de-energized. |

R **ON A/C 101-104,

R Post SB 25-2079 For A/C 101-104,

R Post SB 28-2105 For A/C 101-104,

| ACTION | RESULT |
|---|---|
| 1. In AFT cargo compartment<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On control panel<br>- Select POWER switch to ON. | - Cargo conveyance system ready for operation. |
| 3. On control panel<br>- Select joystick to FWD and hold. | In AFT cargo compartment<br>- Longitudinal power drive units rotate in FWD direction.<br>- Longitudinal power drive units 512MY-1 and 512MY-2, located at FR61 do not run. |
| 4. In ball mat area<br>- Press and hold interlock switches 8883MY and 8884MY | In ball mat area<br>- Longitudinal power drive units 512MY-1 and 512MY-2 start . |

| ACTION | RESULT |
|---|---|
| located at FR60. | |
| 5. Release interlock switches 8883MY and 8884MY. | Longitudinal power drive units 512MY-1 and 512MY-2 stop. |
| 6. Centralize joystick, select to AFT and hold. | Longitudinal power drive units rotate in AFT direction.<br>- Longitudinal power drive units 512MY-1 and 512MY-2, located at FR61 do not run. |
| 7. In ball mat area<br>- Press and hold interlock switch 8883MY, located at FR60/LH. | In ball mat area<br>- Longitudinal power drive unit 512MY-1 located at FR61/LH starts. |
| 8. Raise container latch 42, 513MY, located at FR60. | Longitudinal power drive unit 512MY-1 stops. |
| 9. Lower container latch 42, 513MY. | Longitudinal power drive unit 512MY-1 starts. |
| 10. Release interlock switch 8883MY. | Longitudinal power drive unit 512MY-1 stops. |
| 11. Press and hold interlock switch 8884MY, located at FR60/RH. | Longitudinal power drive unit 512MY-2 located at FR61/RH starts. |
| 12. Release interlock switch 8884MY. | Longitudinal power drive unit 512MY-2 stops. |
| 13. In AFT cargo compartment<br>- Raise pallet latches 42, 516MY and 515MY located at FR54.3. | - Power drive units 512MY6 and 512MY5, located between FR54.1 and FR54.2, stop. |
| 14. Lower pallet latches 42, 516MY and 515MY. | Power drive units 512MY6 and 512MY5 start. |
| 15. Raise container latches 42, 513MY and 514MY, located at FR60. | Power drive units 512MY3 and 512MY4 located between FR58 and FR61 stop. |
| 16. Lower container latches 42, 513MY and 514MY. | Power drive units 512MY3 and 512MY4 start. |
| 17. Raise container latch 47, 522MY, located on aircraft centerline aft of FR62. | Power drive unit 523MY2, located left of aircraft centerline, aft of FR62, stops. |

| ACTION | RESULT |
|---|---|
| 18.Lower container latch 47, 522MY. | Power drive unit 523MY2 starts. |
| 19.Raise RH container-latch 42, 521MY located at FR63. | Power drive unit 523MY1, located on seventh container position, stops. |
| 20.Lower RH container latch 42, 521MY. | Power drive unit 523MY1 starts. |
| 21.Raise and lower manually-operated YZ-latch of door sill latches in turn. | Longitudinal power drive units stop when the YZ-latch is raised and start when the latch is lowered. |
| 22.On control panel<br>- Centralize joystick, select to IN and hold. | In AFT cargo compartment<br>- All transverse power drive units rotate in IN direction. |
| 23.In AFT cargo compartment<br>- Raise container latch 47, 511MY, located on compartment center line at FR61. | - Power drive unit 510MY1, located between FR61 and FR62 stops. |
| 24.Lower container latch 47, 511MY. | Power drive unit 510MY1 starts. |
| 25.Repeat step 21. for transverse power drive units. | |
| 26.On control panel<br>- Centralize joystick and depress. | In AFT cargo compartment<br>- Power drive unit 510MY1 rotates in IN direction<br>- Power drive unit 510MY2 rotates in OUT direction. |
| 27.Release pressure on joystick. | Power drive units 510MY1 and 510MY2 stop. |
| 28.Select joystick to OUT and hold. | Power drive units 510MY1 and 510MY2 rotate in OUT direction. |
| 29. Release pressure on joystick. | |
| 30.In door sill area<br>- Raise manually-operated YZ-latch of door sill latches. | On control panel<br>- Control panel light goes off. |
| 31.On control panel<br>- Select POWER switch to OFF. | - Cargo conveyance system de-energized. |

**ON A/C ALL

(3)Close-Up
(a)Raise manually-operated YZ-latch of door sill latches.
(b)Make certain that the work area is clean and clear of tools and miscellaneous items of equipment.
(c)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(d)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(e)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(f)Close FWD and/or AFT control panel access door(s).
(g)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(h)Remove access platform.

R **ON A/C 001-100,

1. Cargo Latching - Visual Inspection

A. Reason for the Job
General Visual Inspection of each latch of the cargo loading system.

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Access Platform, 2.7 m (9 ft.) |
| (2) | Circuit Breaker Safety Clips and Tags |
| (3) | Warning Notice |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

C. Procedure
(1)Job Set-Up
(a)Put access platform in position.
(b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(c)Make certain that electronics racks ventilation is correct.
(d)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(e)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(f)Put the warning notice on the control panel of the FWD and/or AFT cargo loading system to tell persons not to operate it.
(g)Open, safety and tag the following circuit breakers:

R **ON A/C 101-200,

R 1. Cargo Latching - Visual Inspection

R A. Reason for the Job
R General Visual Inspection of each latch of the cargo loading system.

R B. Equipment and Materials

| R ITEM | DESIGNATION |
|---|---|
| R (1) | Access Platform, 2.7 m (9 ft.) |
| R (2) | Circuit Breaker Safety Clips and Tags |
| R (3) | Warning Notice |

R Referenced Procedures
R - 24-41-00, P. Block 301 AC External Power Control
R - 28-11-36, P. Block 401 Additional Center Tank
R - 52-30-00, P. Block 1 Cargo Compartment Doors
R - 52-30-00, P. Block 301 FWD and AFT Cargo Compartment Doors

R C. Procedure
R (1)Job Set-Up
R (a)Put access platform in position.
R (b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
R (c)Make certain that electronics racks ventilation is correct.
R (d)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
R (e)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
R (f)Put the warning notice on the control panel of the FWD and/or AFT cargo loading system to tell persons not to operate it.
R (g)Remove the additional center tank (Ref. 28-11-36, P. Block 401).
R (h)Open, safety and tag the following circuit breakers:

R **ON A/C ALL

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

R **ON A/C 001-100,

** For FWD and AFT Cargo Compartments

D. Inspection/Check
(1)Door Sill Latch
(a)Examine each door sill latch and the adjacent area for corrosion, dents and/or cracks.
(b)Make certain that the door sill latches are correctly installed.
(2)Fixed YZ-Latch
(a)Examine each fixed YZ-latch and the adjacent area for cracks, corrosion or other damage.
(b)Make certain that the fixed YZ-latches are correctly installed.
(c)Make sure that the guide roller is correctly attached.
(3)Fixed Container Latch
(a)Examine each fixed container latch and the adjacent area for cracks, corrosion or other damage.
(b)Make certain that the container latch is correctly installed.
(4)Container Latch
(a)Examine each container latch 42, container latch 47 and the adjacent area for cracks, corrosion or other damage.
(b)Make certain that the spring is attached correctly and the container latches are correctly installed.
(5)Pallet Latch
(a)Examine each pallet latch and the adjacent area for cracks, corrosion or other damage.
(b)Make certain that the spring is attached correctly and the pallet latches are correctly installed.
(6)Overridable YZ-Latches
(a)Examine each overridable YZ-latch and the adjacent area for cracks, corrosion and other damage.
(b)Make certain that each overridable YZ-latch is correctly installed.
(c)Make certain that the spring of each overridable YZ-latch is correctly attached and each latch is in the upright position.

R **ON A/C 101-200,

** For FWD and AFT Cargo Compartments

D. Inspection/Check
(1)Door Sill Latch
R (a)Examine each door sill latch and the adjacent area for corrosion,
R dents and/or cracks.
(b)Make certain that the door sill latches are correctly installed.
(2)Fixed YZ-Latch
(a)Examine each fixed YZ-latch and the adjacent area for cracks, corrosion or other damage.
(b)Make certain that the fixed YZ-latches are correctly installed.
(c)Make sure that the guide roller is correctly attached.

** For FWD Cargo Compartment
(3)Fixed XZ-Latch (Endstop)
(a)Examine each fixed XZ-latch and the adjacent area for cracks, corrosion or other damage.

(b)Make certain that the fixed XZ-latch is correctly installed.

** For AFT Cargo Compartment
(4)Fixed X-Latch with Roller (Endstop)
(a)Examine each fixed X-latch and the adjacent area for cracks, corrosion or other damage.
(b)Make certain that the fixed X-latch is correctly installed.
(c)Make sure that the roller is correctly attached.

** For FWD and AFT Cargo Compartment
(5)XZ-Latch
(a)Examine each XZ-latch and the adjacent area for cracks, corrosion or other damage.
(b)Make certain that the spring is attached correctly and the container latches are correctly installed.
(6)YZ-Latch
(a)Examine each YZ-latch and the adjacent area for cracks, corrosion or other damage.
(b)Make certain that the spring is attached correctly and the pallet latches are correctly installed.
(7)Overridable YZ-Latch
(a)Examine each overridable YZ-latch and the adjacent area for cracks, corrosion and other damage.
(b)Make certain that each overridable YZ-latch is correctly installed.
(c)Make certain that the spring of each overridable YZ-latch is correctly attached and each latch is in the upright position.

R **ON A/C 001-100,

E. Close-Up
(1)Make sure that the work area is clean and clear of tools and other items of equipment.
(2)Remove the safety clips and tags and close the circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(3)Remove the door actuator safety locks (Ref. 52-30-00, P. Block 301).
(4)Close the FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove the warning notice(s).
(7)Remove the access platform.

R **ON A/C 101-200,

R E. Close-Up
R (1)Install the additional center tank (Ref. 28-11-36, P. Block 401).
R (2)Make sure that the work area is clean and clear of tools and other
R items of equipment.
R (3)Remove the safety clips and tags and close the circuit breakers 101MY,

R 601MY, 7GX and 23GX.
R (4)Remove the door actuator safety locks (Ref. 52-30-00, P. Block 301).
R (5)Close the FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00,
R P. Block 1).
R (6)De-energize the aircraft electrical network and disconnect the
R electrical ground power unit (Ref. 24-41-00, P. Block 301).
R (7)Remove the warning notice(s).
R (8)Remove the access platform.

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |
| D. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| E. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| G. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

## 2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on loading system control panel.
(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

(8)Remove all the components, only if necessary.

B. Removal

(Ref. Fig. 401)
(Ref. Fig. 402)

NOTE : The screws of the roller track may have different lengths. Write down their positions to make the installation easier.

NOTE : The screws of the bonding points are steel screws. Write down their positions to make the installation easier.

(1)Remove the screws (3) and (4).
(2)Remove the screws (1),(2) and the nuts (5).
(3)Lift and remove the roller track (6) from the structure.

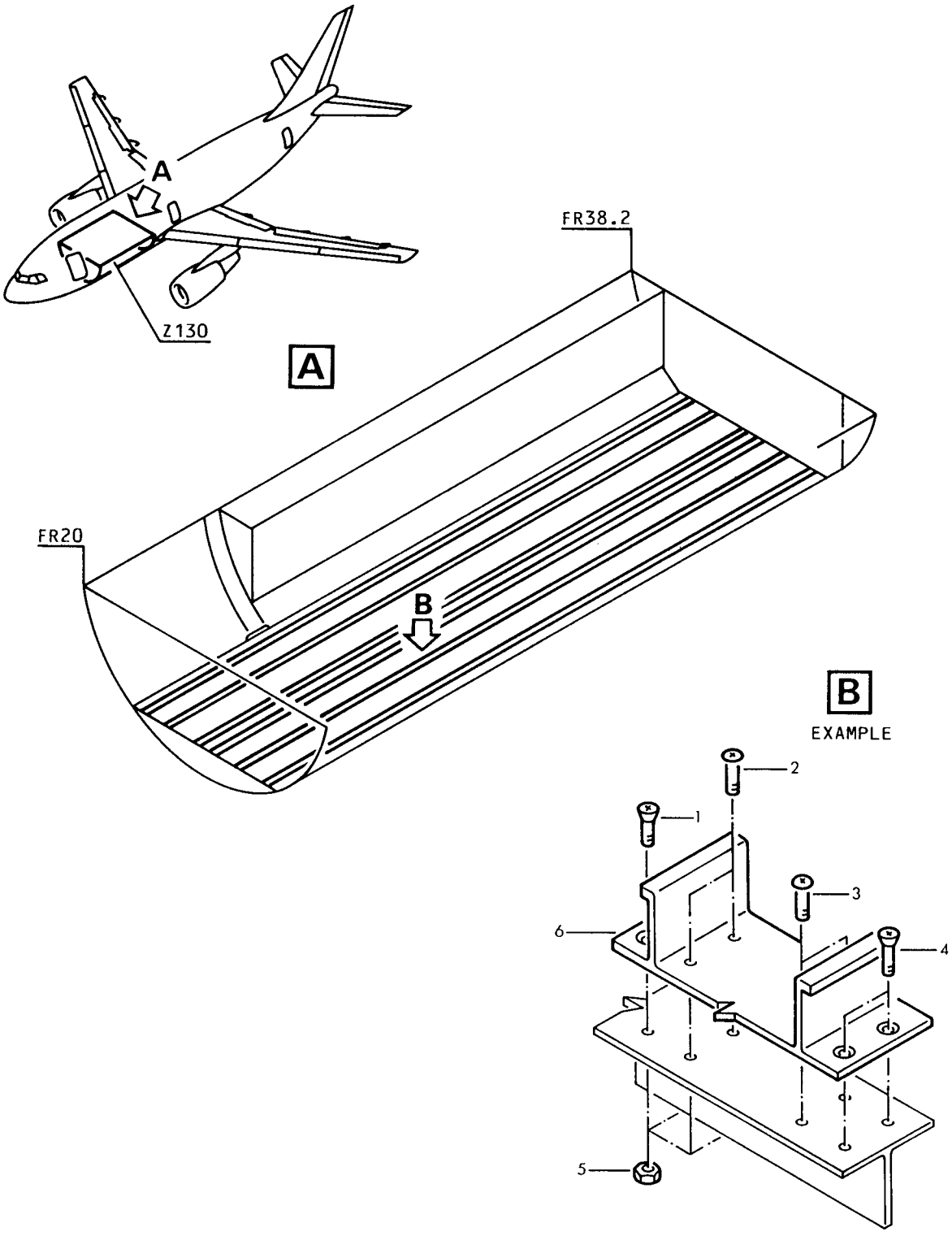
C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove the old sealant from the structure and the roller track (6) with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

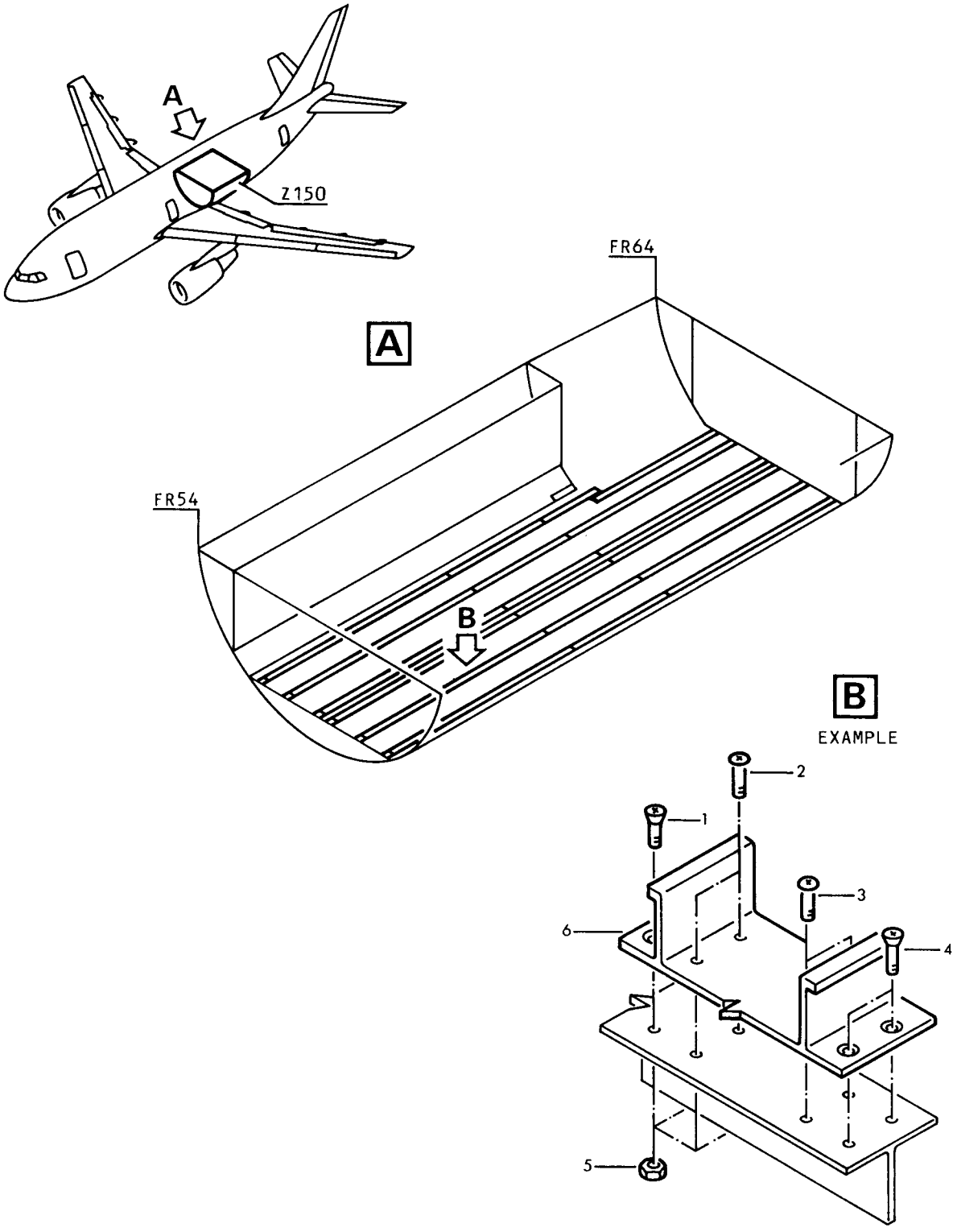
D. Installation

(Ref. Fig. 401)
(Ref. Fig. 402)
(1)Apply a layer of sealant (Material No. 09-016) to the mating surface of the roller track (6).
(2)Position the roller track (6) on the structure.
(3)Apply anti-corrosion compound (Material No. 05-002) to the threads of the screws (1),(2),(3) and (4).
(4)Install the screws (3) and (4).
(5)Install the screws (1),(2) and the nuts (5).
(6)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(7)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the roller track (6).




BM6 25 52 21 4 AAM0 00

Roller Track - FWD Cargo Compartment
Figure 401




BM6 25 52 21 4 ACM0 00

Roller Track - AFT Cargo Compartment
Figure 402

(8)Make certain that the work area is clean and clear of tools and other items.

E. Close-Up

(1)Install the removed components.
(2)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(3)Remove circuit breaker safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

R

BALL MATS - REMOVAL/INSTALLATION

R CAUTION : BE CAREFUL WHEN YOU INSPECT/REPLACE THE SEALING OF THE CARGO
R COMPARTMENT LININGS, FLOOR PANELS AND BALL MATS.
R MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED.
R PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A
R DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING
R SYSTEM, IF A FIRE OCCURS.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. H8603-10 | Crimping Device |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Circuit Breaker Safety Clips and Tags |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| F. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| R G. Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make sure that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) on FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on loading system control panel.
(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS | 7GX | 333/T51 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| | CTL AND CARGO DOOR PUMP | | |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS | 7GX | 333/T51 |
| | CTL AND CARGO DOOR PUMP | | |

** For FWD and AFT Cargo Compartments

B. Removal

**ON A/C 101-200,

(Ref. Fig. 401)

**ON A/C 001-100,

(Ref. Fig. 402)

**ON A/C ALL

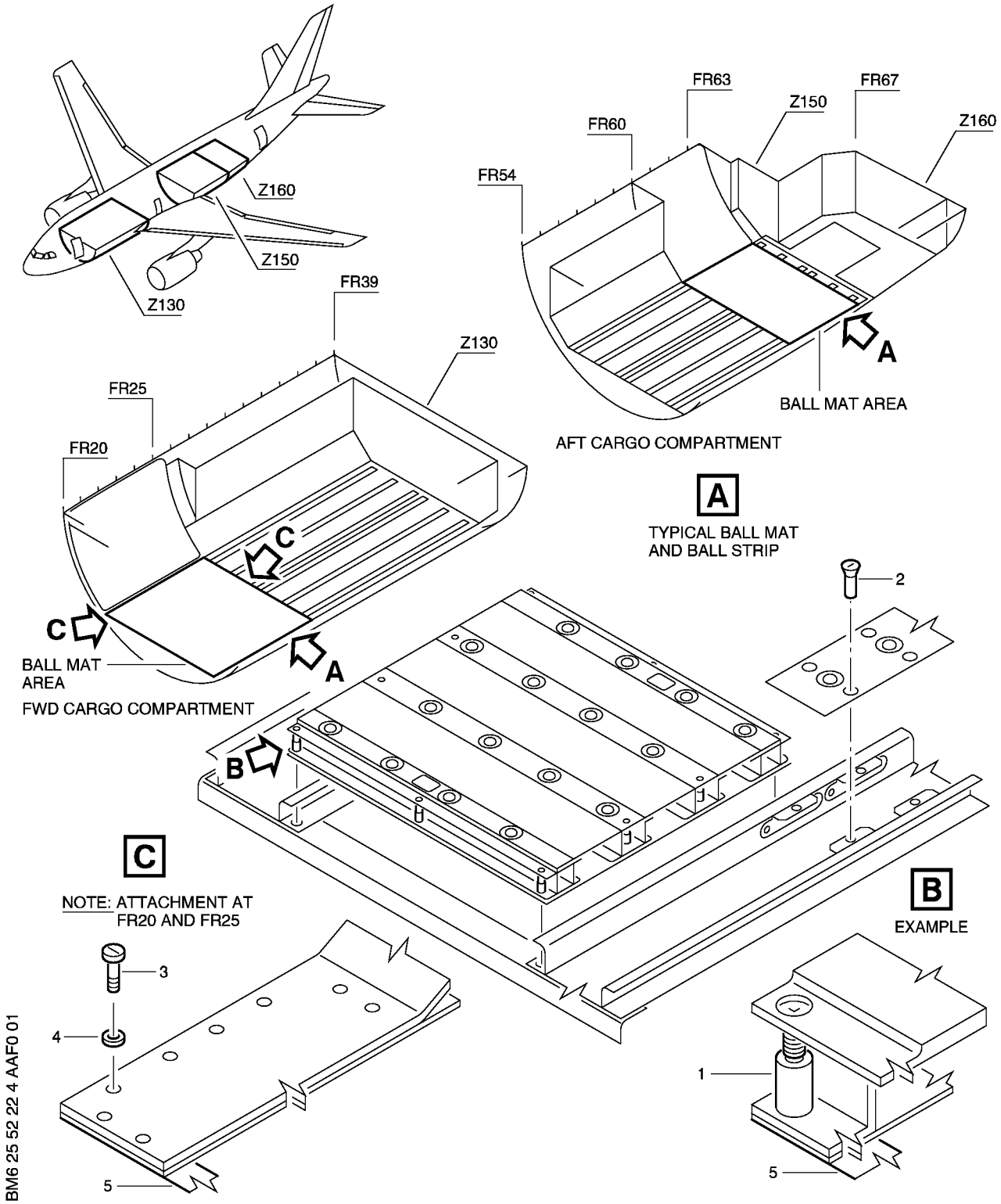
(1)Ball Mats
(a)Release captive screws (1) and remove ball mat.

NOTE : If a captive screw is loose, use crimping device H8603-10.

(2)Ball Mats at STA1446/FR20.
(a)Release captive screws (1).
(b)Remove screws (3) and washers (4) at STA1446/FR20 and/or at STA1711/FR25.
(c)Remove ball mat.
(3)Ball Strips
(a)Remove screws (2) and remove ball strip.

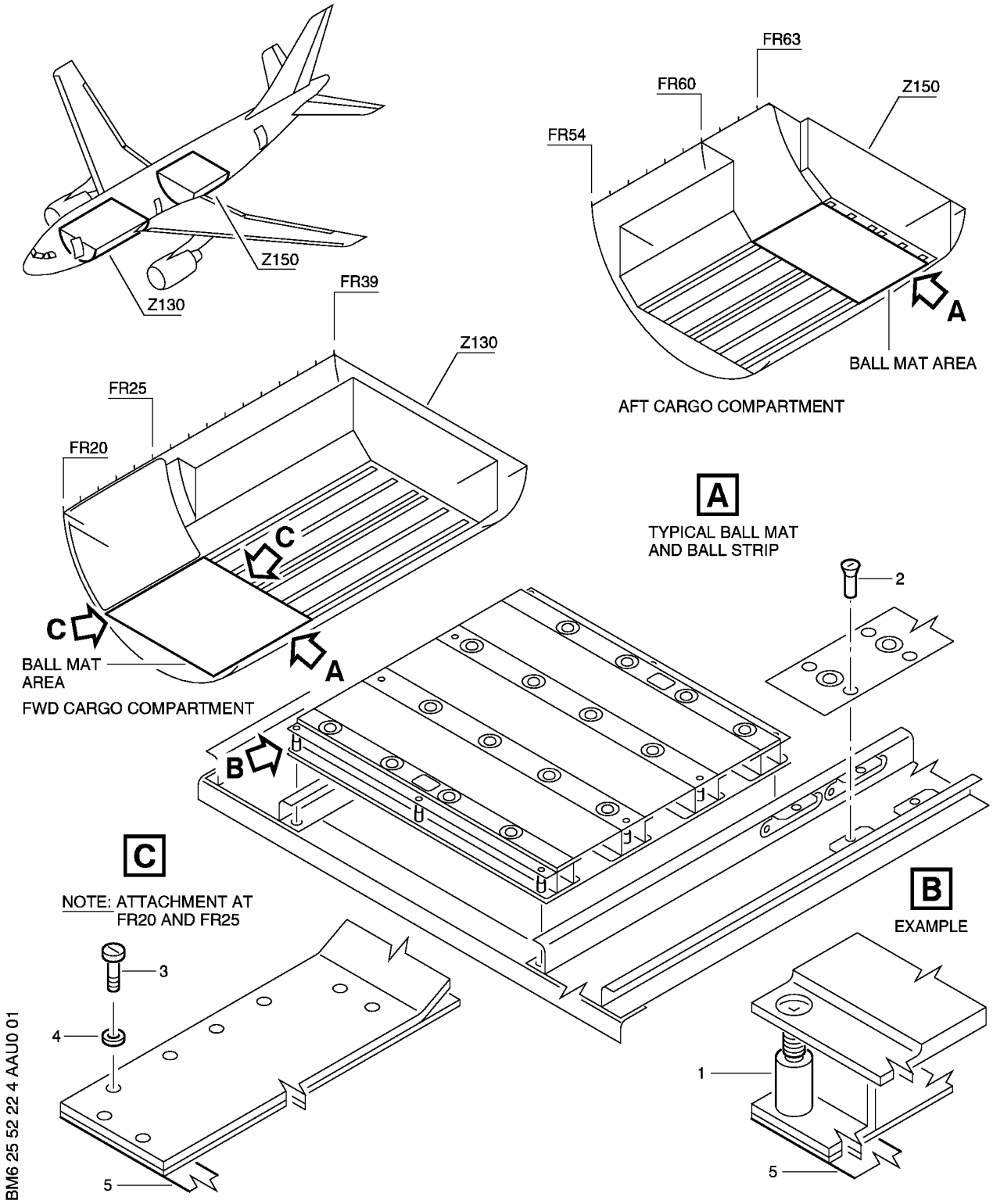
C. Preparation for Installation

R WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY
R FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE
R A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS
R SPLASHED WITH SOLVENT. AVOID INHALING FUMES.




Ball Mats and Ball Strips
Figure 401

R




Ball Mats and Ball Strips
Figure 402

R

R CAUTION : BE CAREFUL WHEN YOU INSPECT/REPLACE THE SEALING OF THE
R CARGO COMPARTMENT LININGS, FLOOR PANELS AND BALL MATS.
R MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED.
R PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A
R DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING
R SYSTEM, IF A FIRE OCCURS.

R (1)Clean ball mats/ball strips and installation area with cleaning agent
R (Material No. 11-003).
R (2)Do an inspection of the ball mats/ball strips for damage. If necessary,
R repair or replace damaged ball mats.
R (3)Do an inspection of the sealing strips (5) at the ball mats.
R (4)Make sure that:
R - there are no gaps between the sealing strips (5),
R - the sealing strips (5) are well bonded at the ball mats,
R - the sealing strips (5) are flexible,
R - the sealing strips (5) have the same thickness per ball mat,
R - the surface of the sealing strips (5) is not fractional,
R - no sealing strips (5) are missing or damaged.
R Renew or install sealing strips (5) as necessary.
R (5)Make sure that for the sealing strips (5) Material No. 08-005A and not
R 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.
R (6)Clean the contact area where the sealing strips (7) touch the
R structure using cleaning agent (Material No. 11-003).
R (7)Do an inspection of this structure for integrity and good condition.
R (8)If the structure is damaged, repair or replace it.
R (9)Make sure that contact areas of the panels at the structure are flat.
R (10)Close any open gaps or holes with sealant (Material No. 09-016) and
R make it flat.
R (11)Make sure that after application and drying of sealant, the contact
R surfaces are still flat. Rework as necessary.
R (12)Make sure that all fasteners exist and that they are not damaged.
R (13)Make sure that work area is clean and clear of tools and miscellaneous
R items of equipment.
R (14)Apply anti-corrosion compound (Material No. 05-002) to threads and
shafts of captive screws (1) and screws (2),(3).

** For FWD and AFT Cargo Compartments

D. Installation

**ON A/C 101-200,

(Ref. Fig. 401)

**ON A/C 001-100,

(Ref. Fig. 402)

**ON A/C ALL

(1)Ball Mats
(a)Position ball mat and secure with captive screws (1).
(2)Ball Mats at STA1446/FR20.
(a)Position ball mat and secure with captive screws (1).
(b)Install screws (3) and washer (4) at STA1446/FR20 and at STA1711/FR25.
(3)Ball Strips
(a)Install ball strip with screws (2).

E. Close-Up

R (1)After installation of the ball mats, make sure that all fasteners
R are fully tightened.
R (2)Make sure that work area is clean and clear of tools and miscellaneous items of equipment.
R (3)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
R (4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
R (5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
R (6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
R (7)Remove warning notice.
R (8)Remove access platform.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Spray Gun |
| E. | Sponge |
| F. | Cleaning Cloth |
| G. | Water |
| H. | Masking Tape |
| I. Material No. 07-007 | Lacquers (Ref. 20-31-00) |
| J. Material No. 11-001 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 25-52-23, P. Block 401 | Ball Unit |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

(8)If necessary, remove ball mats (Ref. 25-52-22, P. Block 401).
(9)If necessary, remove ball units (Ref. 25-52-23, P. Block 401).

B. Cleaning
(1)Dilute TEEPOL 610 (Material No. 11-001) with water according to instructions.
(2)Apply TEEPOL 610 (Material No. 11-001) to part to be cleaned and rub-off using a damp sponge.
(3)Wipe dry, using clean cloth.
NOTE : Do not allow TEEPOL 610 (Material No. 11-001) to dry.

C. Painting
(1)Mask all bores and ball units.
(2)Remove damaged surface coating and scratches by sanding and polishing.
(3)Clean polished area with clean cloth.
(4)Apply AERODUR (Material No.07-007).
(5)Remove masking tape.

D. Close-Up
(1)Install ball units (Ref. 25-52-23, P. Block 401), if necessary.
(2)Install ball mats (Ref. 25-52-22, P. Block 401), if necessary.
(3)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(4)Remove warning notice.
(5)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(6)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(7)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(8)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(9)Remove access platform.

BALL UNIT 259631 (259649) - REMOVAL/INSTALLATION

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. 117A | "FACOM" Wrench - Ball Unit Removal, FWD and AFT Cargo Compartments |
| R or | |
| R 117B | |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Circuit Breaker Safety Clips and Tags |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartments

B. Removal

**ON A/C 001-100,

(Ref. Fig. 401)

**ON A/C 101-200,

(Ref. Fig. 402)

**ON A/C ALL

R (1)Insert pins of "FACOM" wrench PN 117A or 117B in holes provided in upper cover of ball unit (1).
(2)Press attachment pins (2) back against the spring pressure and lift ball unit (1) out of ball mat.

C. Preparation for Installation
(1)Clean and check component interface and/or component adjacent area.

D. Installation

**ON A/C 001-100,

(Ref. Fig. 401)

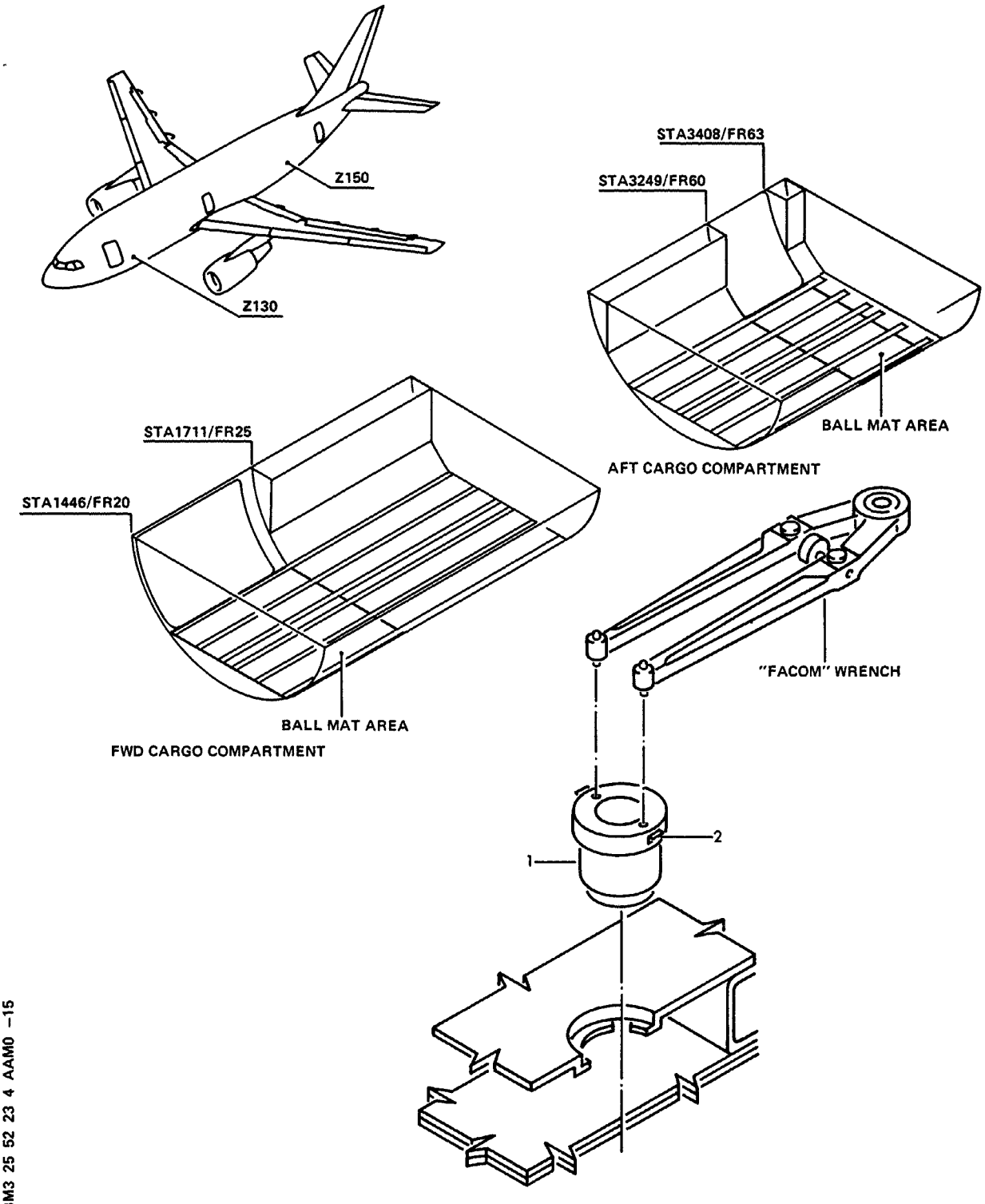
**ON A/C 101-200,

(Ref. Fig. 402)

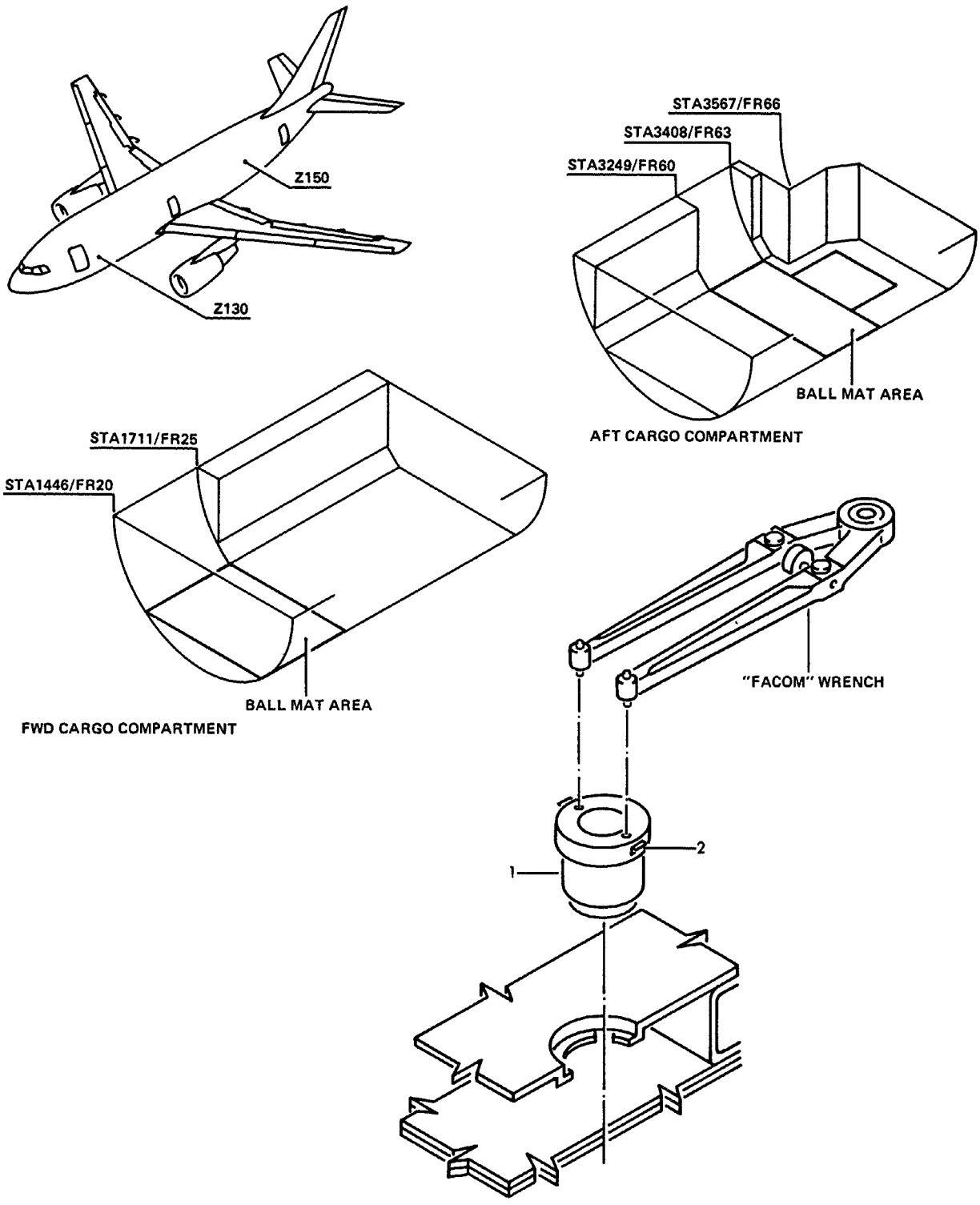
**ON A/C ALL

(1)Insert ball unit (1) into bore of ball mat.
NOTE : Make certain that attachment pins (2) engage correctly.

E. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(3)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).




Ball Unit
Figure 401




Ball Unit
Figure 402

(4)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove warning notice.
(7)Remove access platform.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Wooden or Plastic Scraper |
| E. | Cotter Pin |
| F. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

R **ON A/C 001-100,

(Ref. Fig. 401)

R **ON A/C 101-200,

R Post SB 28-2108 For A/C 101-200,

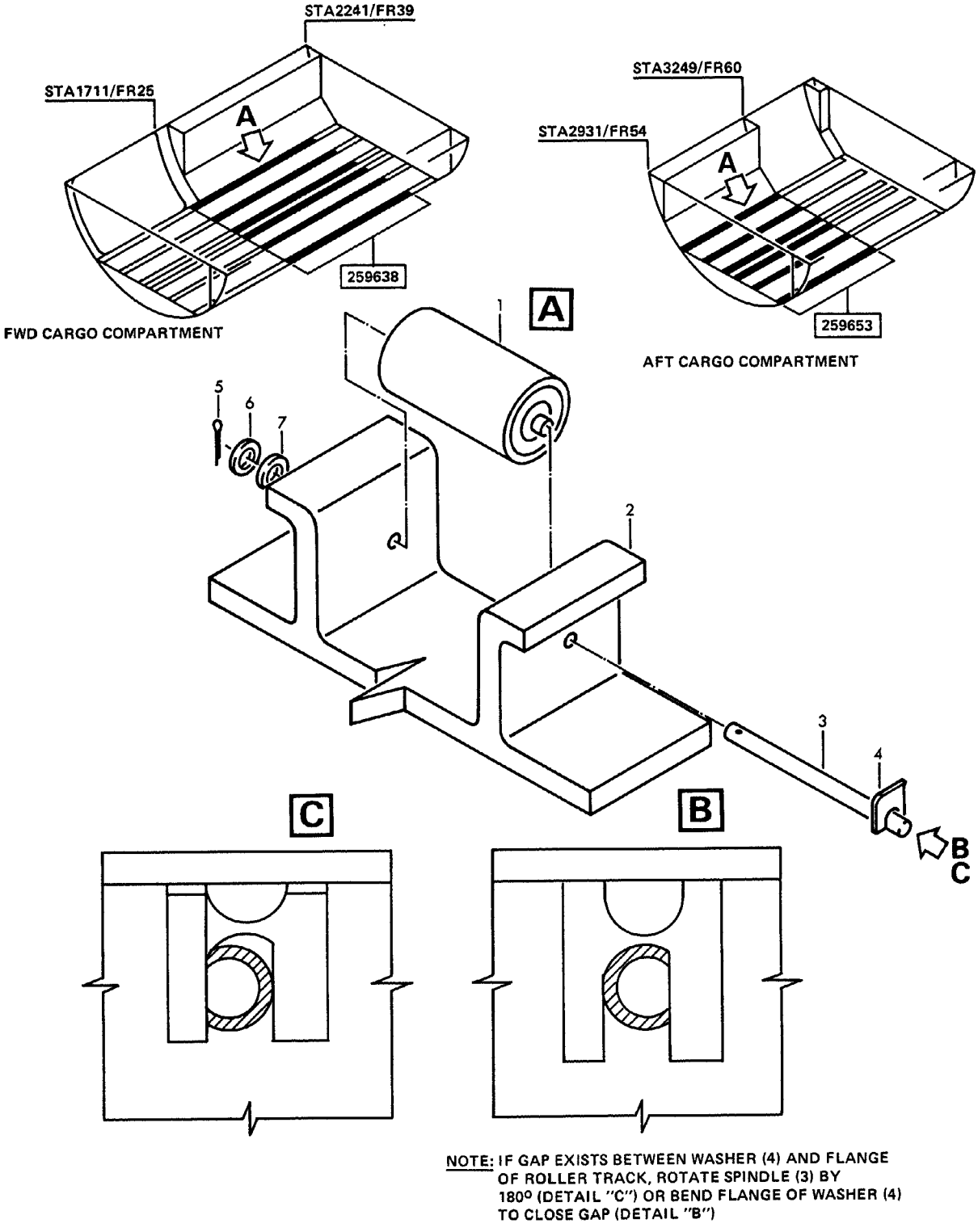
(Ref. Fig. 402)

R **ON A/C 101-200,

(Ref. Fig. 403)

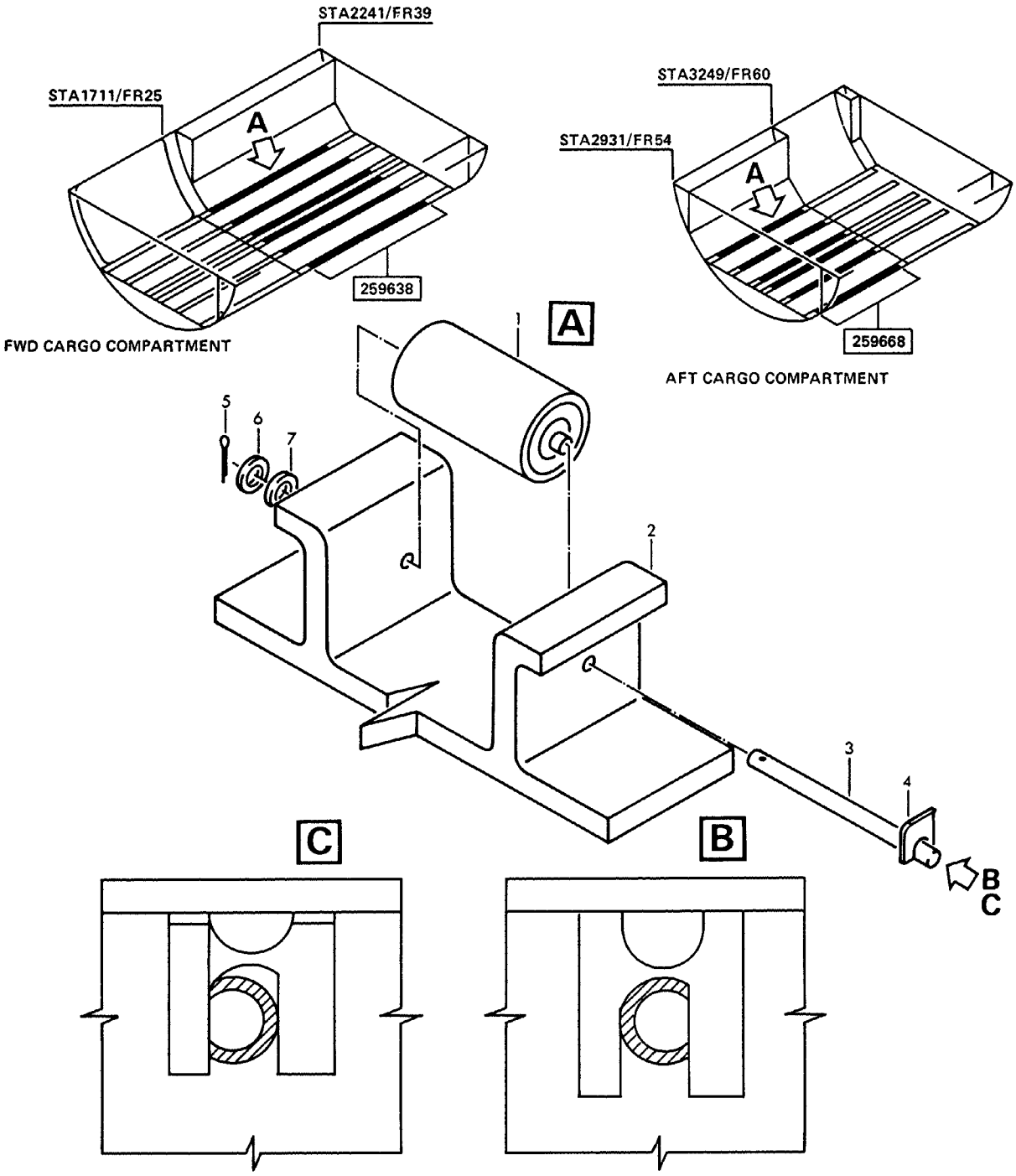
R **ON A/C ALL

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.



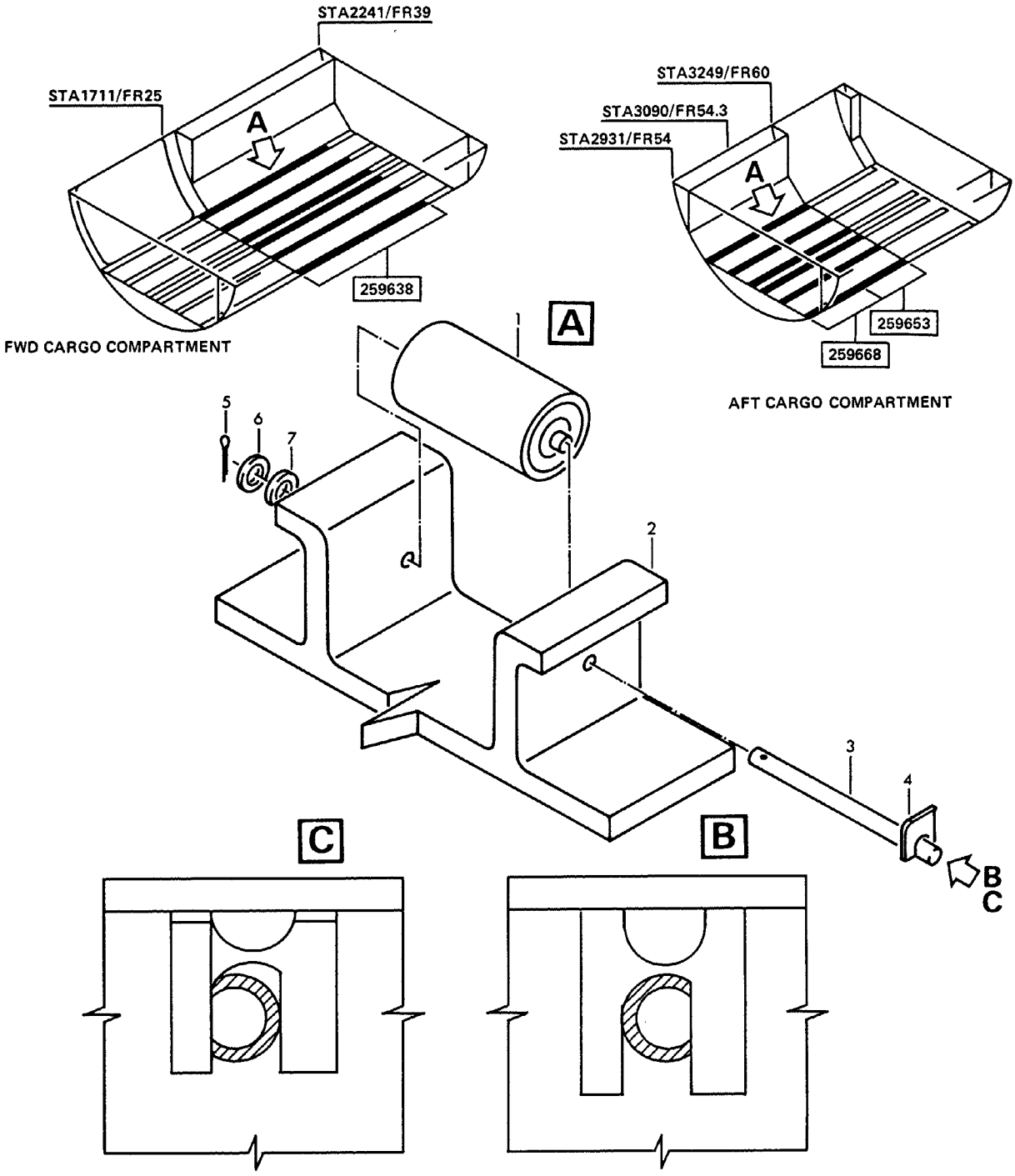

NOTE: IF GAP EXISTS BETWEEN WASHER (4) AND FLANGE OF ROLLER TRACK, ROTATE SPINDLE (3) BY 180° (DETAIL "C") OR BEND FLANGE OF WASHER (4) TO CLOSE GAP (DETAIL "B")

Roller Assy
Figure 401




BM3 25 52 24 4 AAF0 28

Roller Assy
Figure 402




NOTE: IF GAP EXISTS BETWEEN WASHER (4) AND FLANGE OF ROLLER TRACK, ROTATE SPINDLE (3) BY 180° (DETAIL "C") OR BEND FLANGE OF WASHER (4) TO CLOSE GAP (DETAIL "B")

Roller Assy
Figure 403

(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartments

B. Removal
(1)Remove and discard cotter pin (5).
(2)Remove washer (6) and spring washer (7) from spindle (3).
(3)Pull spindle (3) with clip (4) out of roller assy (1) and roller track (2).

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Clean the installation area with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

D. Installation
(1)Position roller assy (1) in roller track (2).
(2)Insert spindle (3) complete with clip (4) in roller track (2) and roller assy (1).
NOTE : Make certain that clip (4) is correctly positioned.
(3)Install spring washer (7), washer (6) and safety with new cotter pin (5).
(4)Apply special materials (Material No. 05-027) to the connecting elements.
(5)Apply special materials (Material No. 05-005) to the material applied to the connecting elements.

E. Test
(1) Turn the roller manually to make sure it turns freely.

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove circuit breaker safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(3)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(4)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove warning notice.
(7)Remove access platform.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Blanking Caps |
| E. | Wooden or Plastic Scraper |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| J. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

**ON A/C 101-200,

(Ref. Fig. 401)

**ON A/C 001-100,

(Ref. Fig. 402)

**ON A/C 001-100,

Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 403)

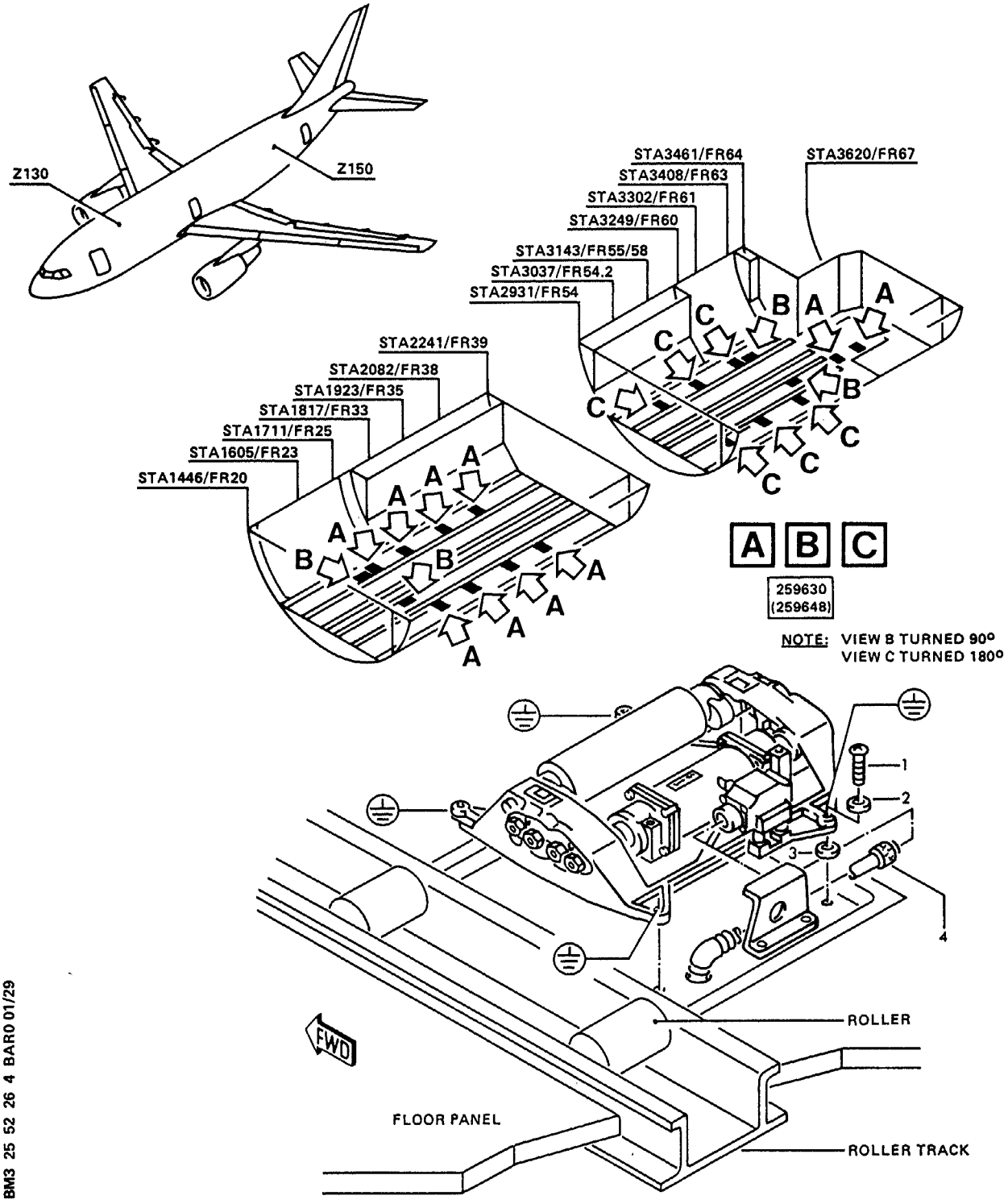
R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

(Ref. Fig. 404)

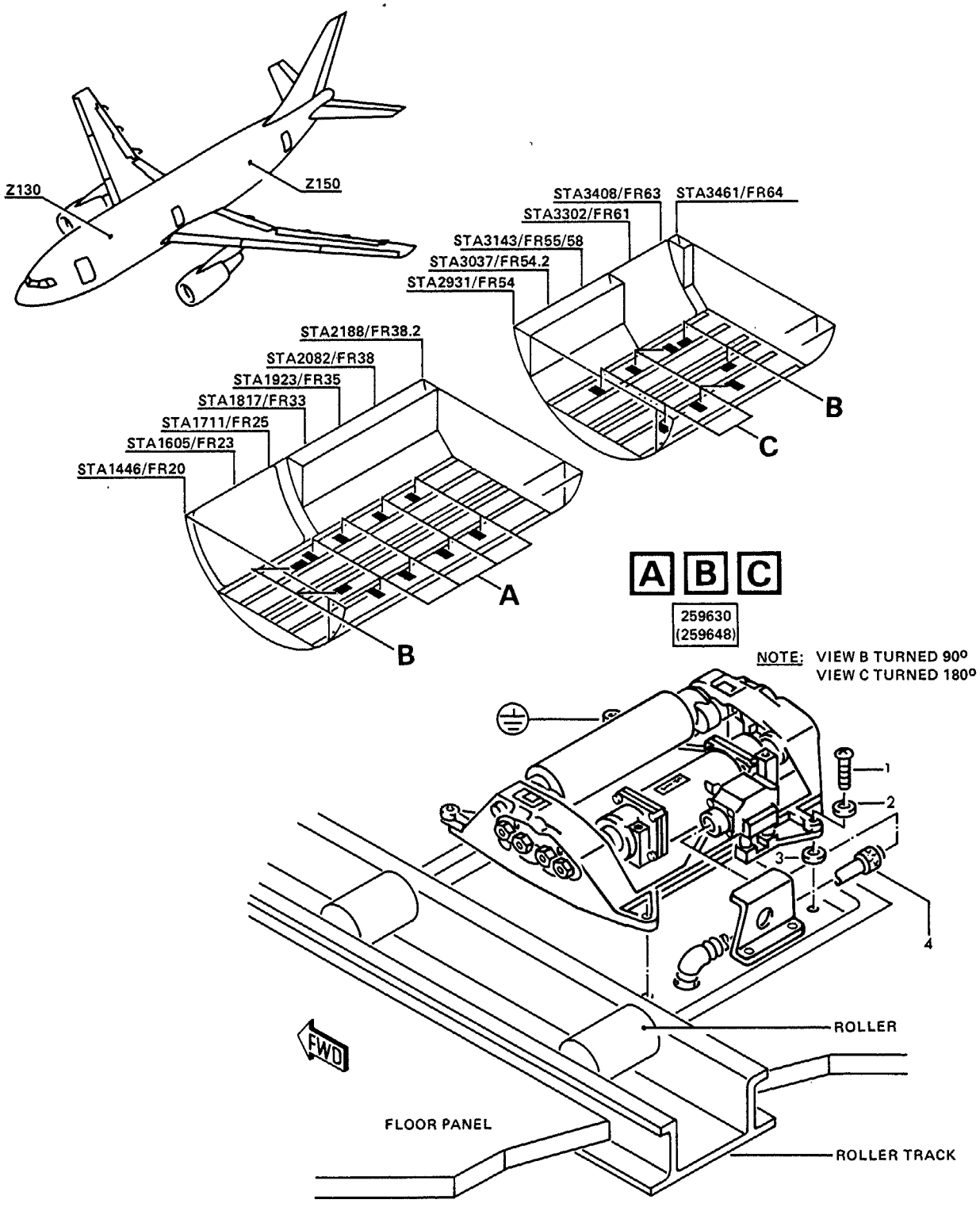
**ON A/C ALL

A. Job Set-Up
(1)Position access platform.



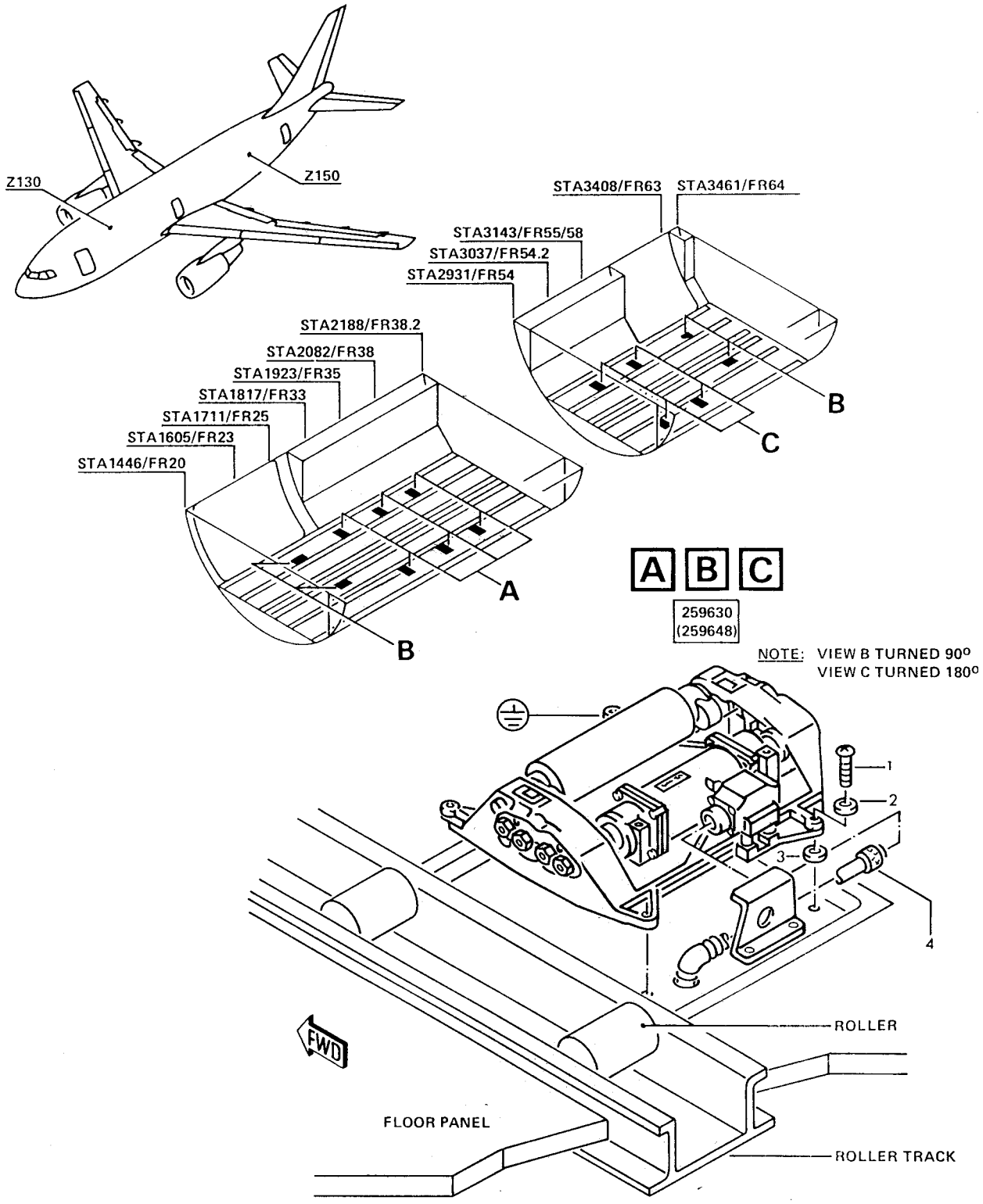

BM3 25 52 26 4 BARD 01/29

Power Drive Unit
Figure 401



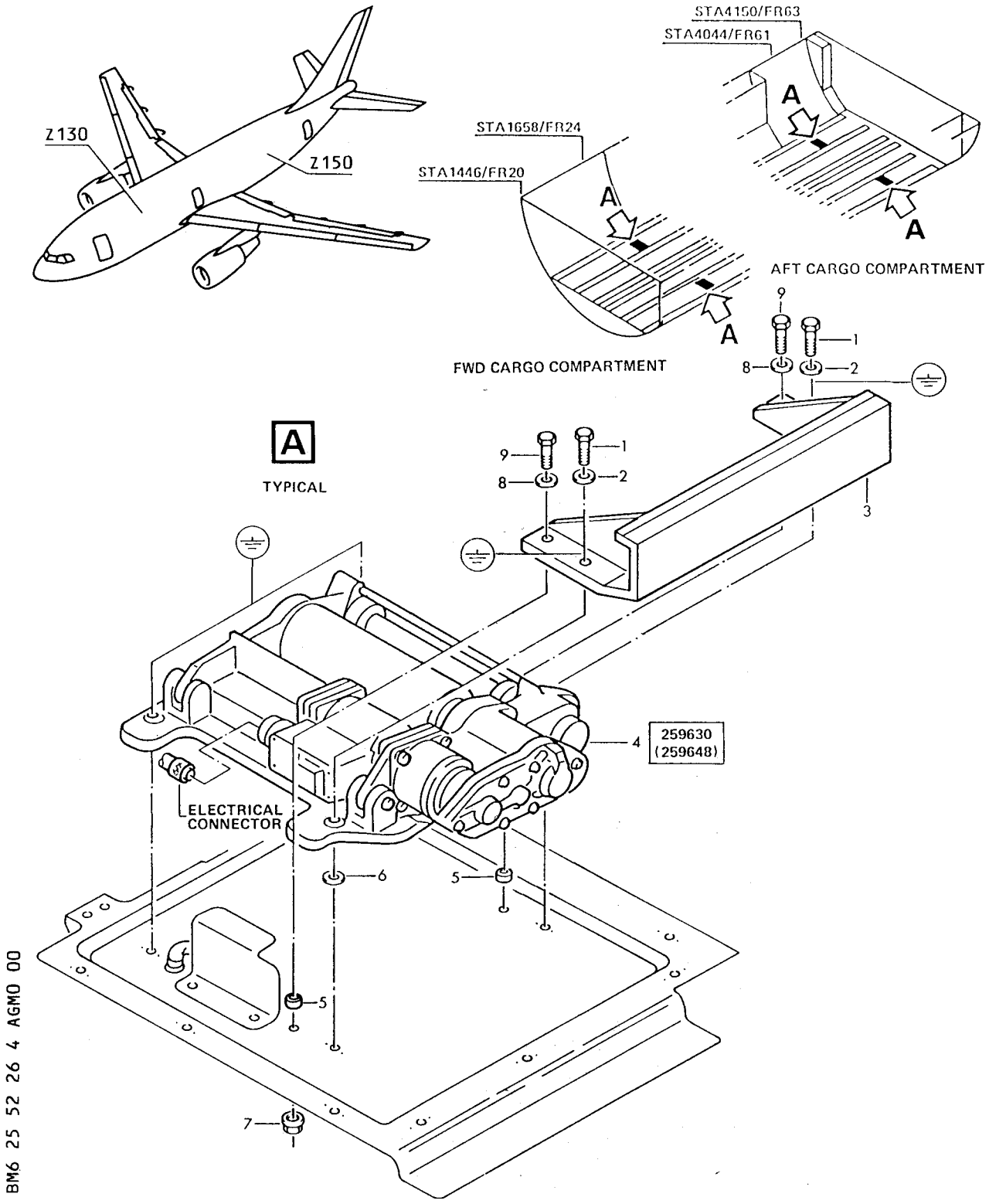

BM3 25 52 26 4 BAF0 28

Power Drive Unit
Figure 402




BM6 25 52 26 4 BACO 00

Power Drive Unit
Figure 403




Power Drive Unit
Figure 404

(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartments

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartments

(8)Remove related ball mats/strips to get access to the PDU (Ref. 25-52-22, P. Block 401).

**ON A/C ALL

B. Removal
(1)Remove screws (1) and washers (2).

NOTE : Power drive unit must be lifted before access can be gained to electrical connector (4).

(2)Lift power drive unit carefully, disconnect electrical connector (4) and remove washers (3).
(3)Remove power drive unit.
(4)Fit blanking caps to electrical connector and to power drive unit.

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

B. Removal
(1)Remove screws (1),(9), washers (2),(8), nuts (7) and protective cover (3).

NOTE : Power drive unit must be lifted before access can be gained to electrical connector.

(2)Lift power drive unit carefully, disconnect electrical connector and remove washers and spacer (5).
(3)Remove power drive unit (4).
(4)Fit blanking caps to electrical connector and to power drive unit.

**ON A/C ALL

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove the old anti-corrosion compound and the old corrosion preventive lubricant from the PDU, from the screws and from the PDU frame with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(2)Prepare bonding surface (Ref. 20-28-11, P. Block 1).
(3)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(4)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (1).

D. Installation
(1)Remove blanking caps from electrical connector and from power drive unit.
(2)Connect electrical connector (4) to power drive unit.
(3)Position power drive unit with washers (3).
(4)Install screws (1) with washers (2).
(5)Protect the screws of the bonding points (Ref. 20-28-11, P. Block 1).
(6)Apply corrosion preventive lubricant (Material No. 05-027) to the heads of the screws (1).
(7)Apply corrosion preventive (Material No. 05-005) to the material applied to the heads of the screws (1).
(8)Remove safety clips and tags and close circuit breakers 1MY, 6MY and/or 501MY and 506MY.
(9)Remove warning notice.

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove the old anti-corrosion compound and the old corrosion preventive lubricant from the PDU, from the screws and from the PDU frame with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(2)Prepare bonding surface (Ref. 20-28-11, P. Block 1).
(3)Make certain that work area is clean and clear of tools and

miscellaneous items of equipment.
(4)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (1) and (9).

D. Installation
(1)Remove blanking caps from electrical connector and from power drive unit (4).
(2)Connect electrical connector to power drive unit (4).
(3)Position power drive unit with washers (6), spacer (5) and protective cover (3).
(4)Install screws (1),(9), washers (2),(8) and nuts (7).
(5)Protect the screws of the bonding points (Ref. 20-28-11, P. Block 1).
(6)Apply corrosion preventive lubricant (Material No. 05-027) to the heads of the screws (1) and (9).
(7)Apply corrosion preventive (Material No. 05-005) to the material applied to the heads of the screws (1) and (9).
(8)Remove safety clips and tags and close circuit breakers 1MY, 6MY and/or 501MY and 506MY.
(9)Remove warning notice.

**ON A/C ALL

E. Test
(Ref. Fig. 405)

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

(Ref. Fig. 406)

**ON A/C 101-200,

(Ref. Fig. 407)

**ON A/C 001-100,

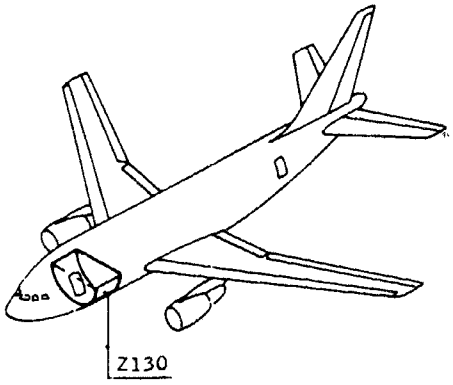
(Ref. Fig. 408)

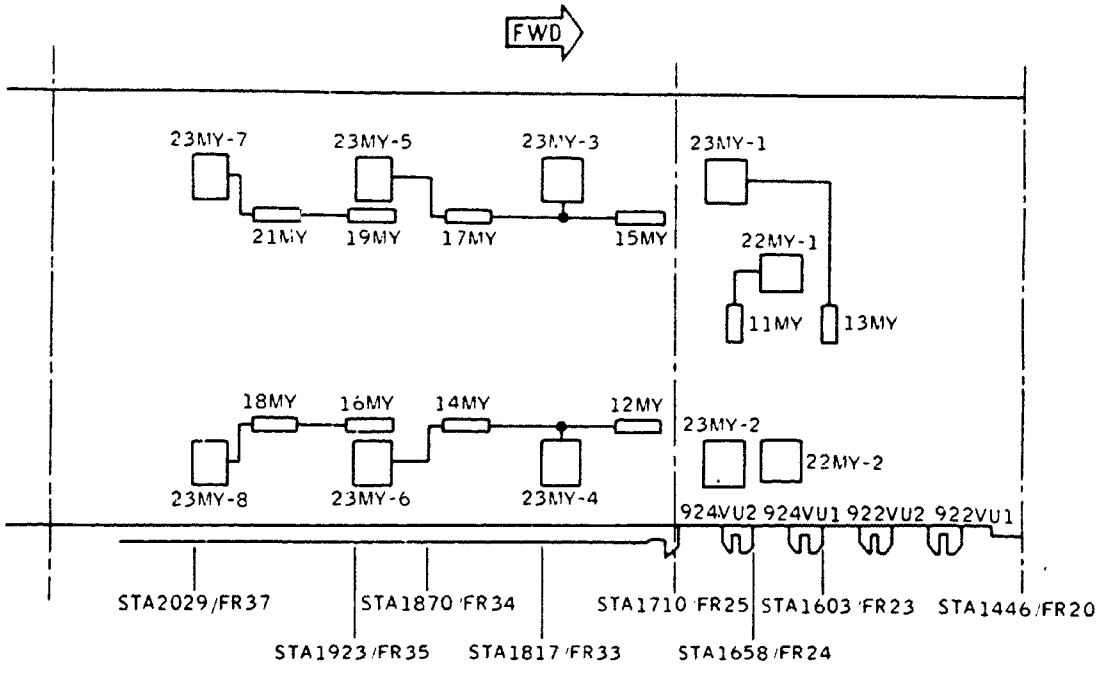
**ON A/C 001-100,

Post SB 25-2079 For A/C 001-100,

(Ref. Fig. 409)

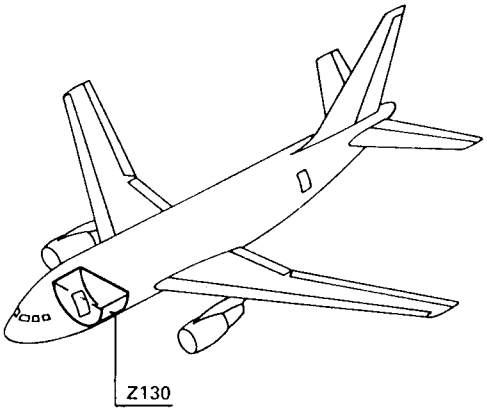
R **ON A/C 101-104,

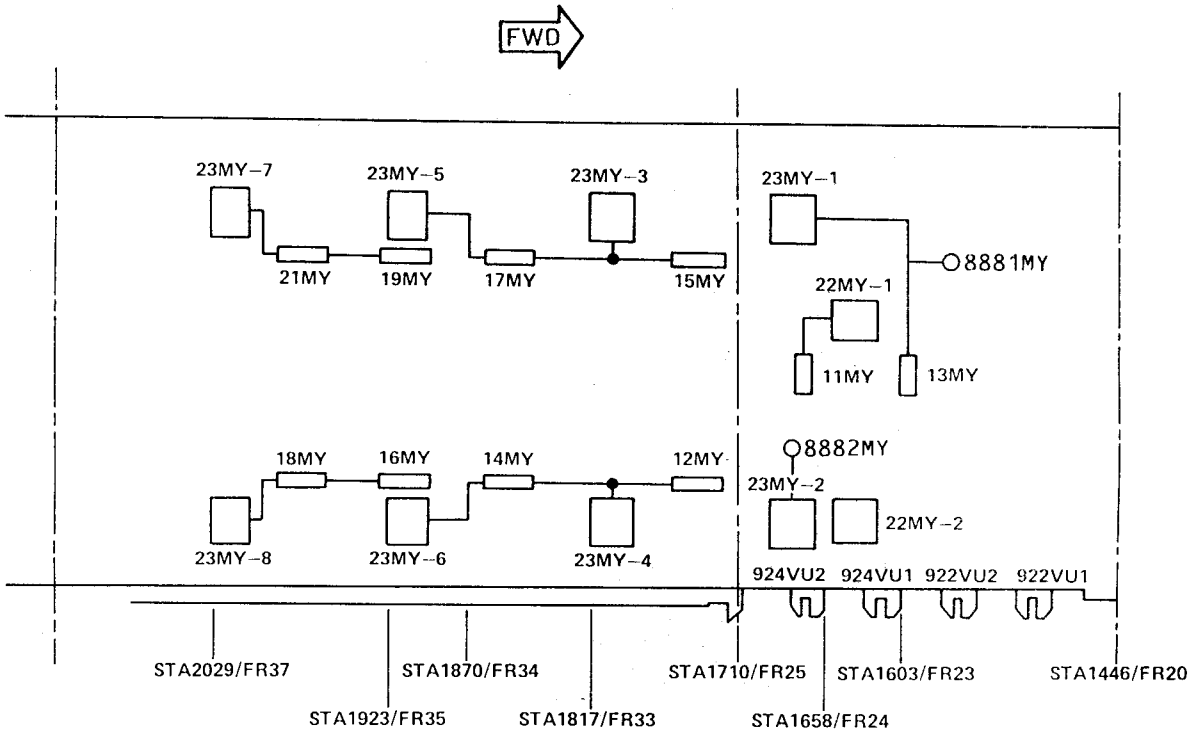



BM3 25 52 26 4 ACM0

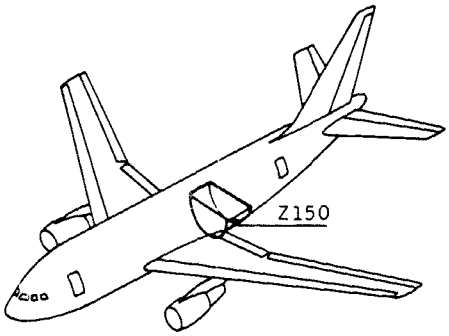
Limit Switch/Power Drive Unit Control
FWD Compartment
Figure 405

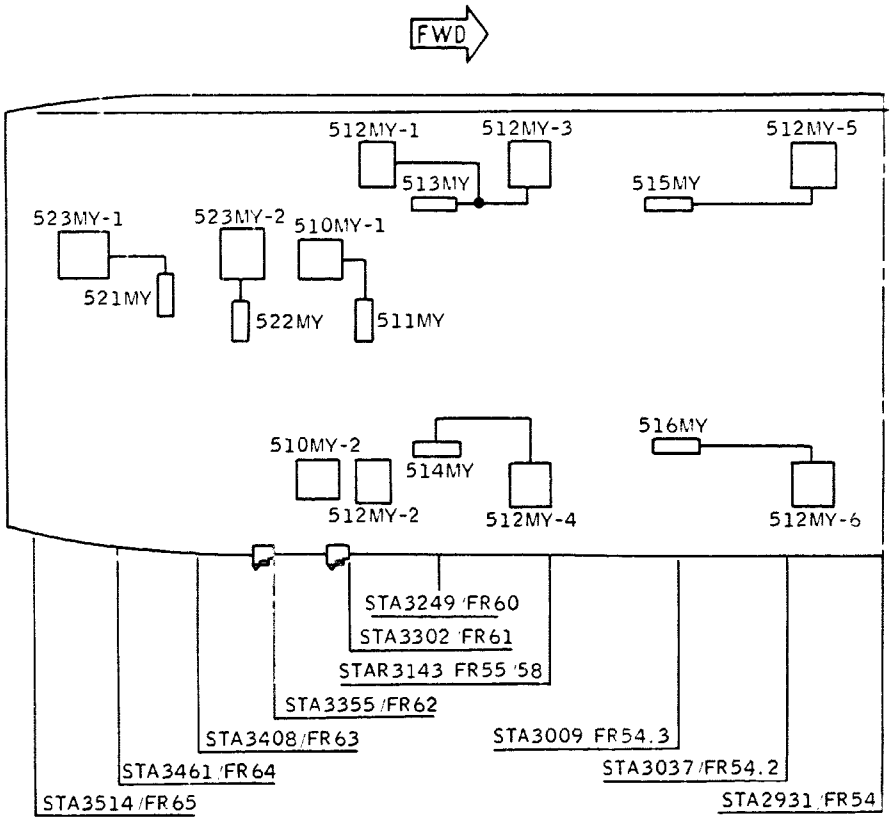



BM6 25 52 26 4 ACF0 00

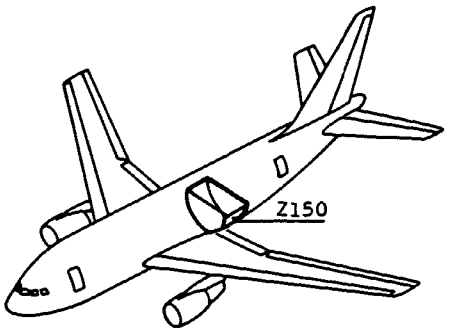
Limit Switch/Drive Unit Control FWD Compartment
Figure 406

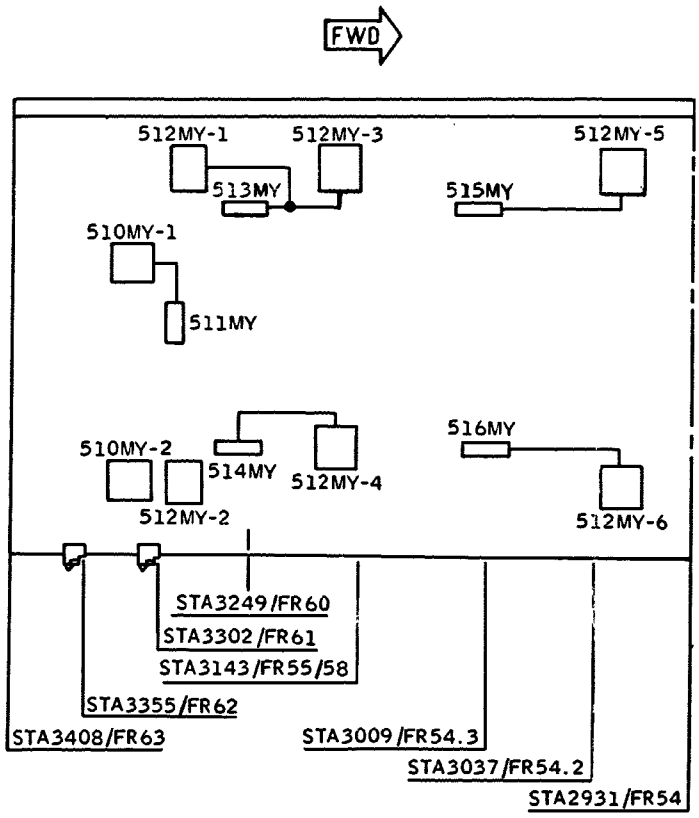



BM3 25 52 26 4 BEMO

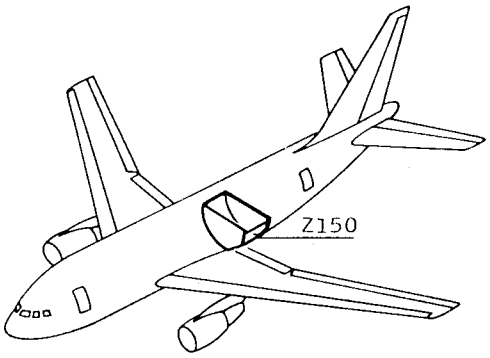
Limit Switch/Power Drive Unit Control
AFT Compartment
Figure 407

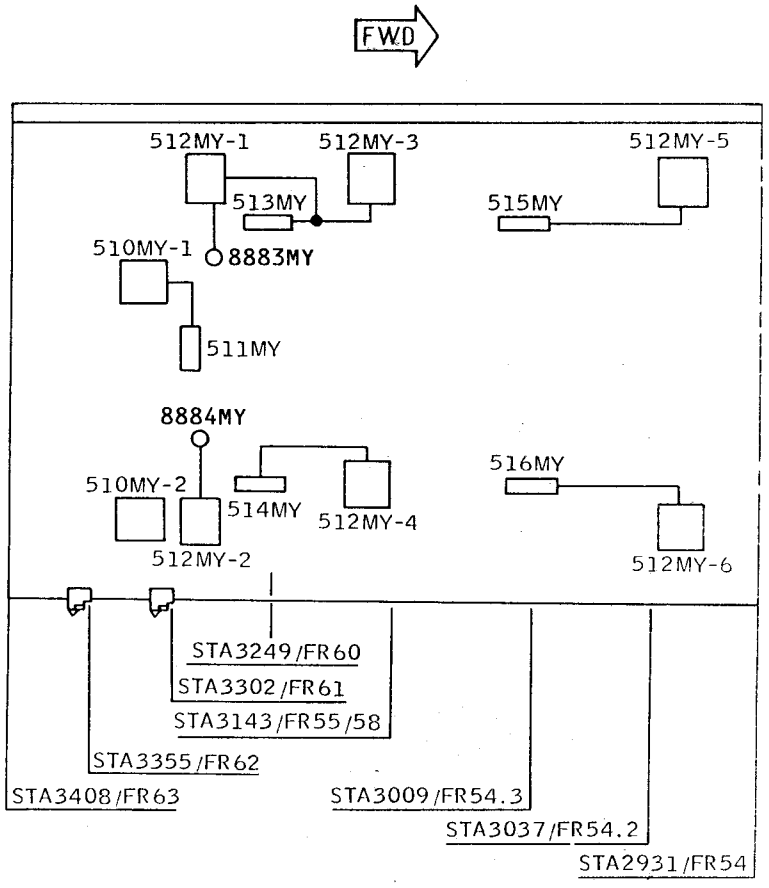



BM3 25 52 26 4 AEM0

Limit Switch/Power Drive Unit Control
AFT Compartment
Figure 408




3M6 25 52 26 4 AEF0 00

Limit Switch/Drive Unit Control AFT Compartment
Figure 409

R Post SB 25-2079 For A/C 101-104,

(Ref. Fig. 410)

**ON A/C ALL

Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).
- Forward services ventilation system in operation.
- Safety clips and tags removed and circuit breakers 1MY, 6MY and/or 501MY and 506MY closed.
- FWD or AFT cargo compartment door opened and safety lock installed.
- All container latches and pallet latches lowered.
- Manually-operated YZ-latch on each door sill latch lowered.
- Warning notice removed from cargo loading system control panel.
- POWER switch on cargo loading system control panel set to ON.

| ACTION | RESULT |
|---|---|
| 1. On cargo loading system control panel<br>- Select joystick to IN and hold. | In ball mat area<br>- Transversal power drive units run in IN direction<br>On cargo compartment floor<br>- Longitudinal power drive units do not run. |
| 2. In ball mat area<br>- Raise each latch in turn<br>- Lower each latch in turn. | <br>Associated power drive unit stops<br>Associated power drive unit runs. |
| 3. On cargo loading system control panel<br>- Centralize joystick, select to OUT and hold. | In ball mat area<br>- Transversal power drive units run in OUT direction<br>On cargo compartment floor<br>- Longitudinal power drive units do not run. |
| 4. Repeat step 2. | |
| 5. On cargo loading system control panel<br>- Centralize joystick, select to FWD and hold. | On cargo compartment floor<br>- Longitudinal power drive units run in FWD direction<br>In ball mat area<br>- Transversal power drive units do not run. |
| 6. On cargo compartment floor<br>- Raise latch associated to newly installed power drive unit<br>- Lower latch. | <br>Power drive unit stops<br><br>Power drive unit runs. |
| 7. On cargo loading system control panel | On cargo compartment floor |

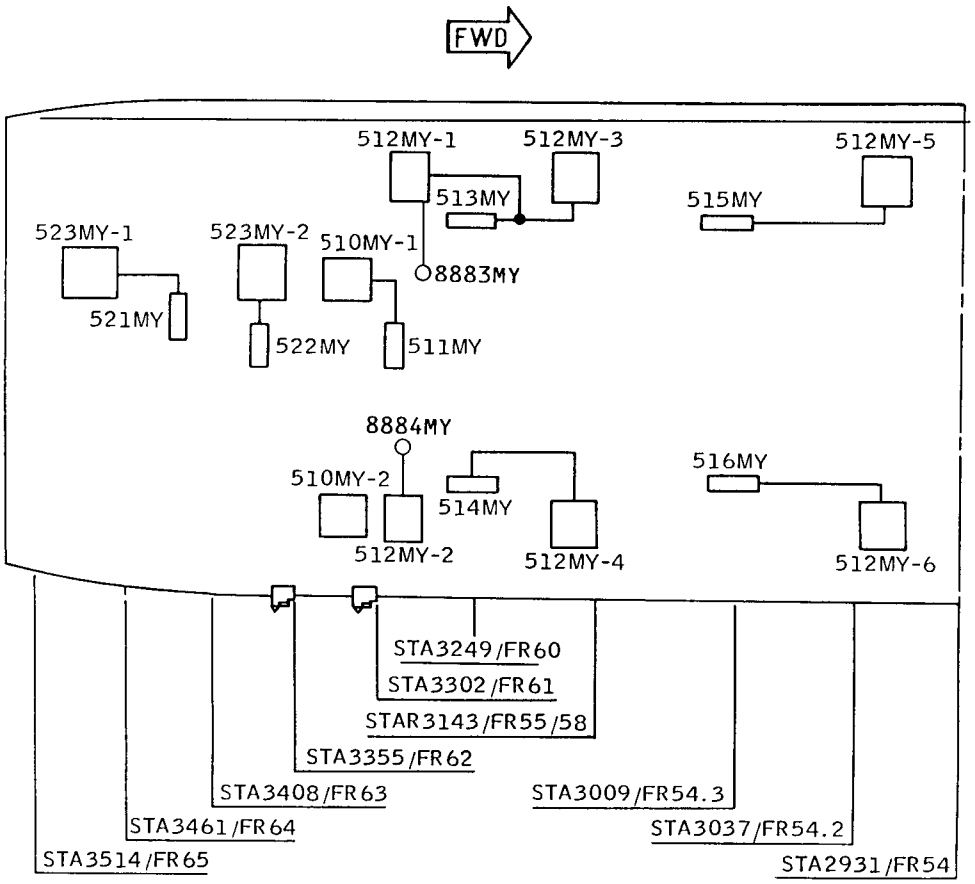
| ACTION | RESULT |
|---|---|
| - Centralize joystick, select to AFT and hold. | - Longitudinal power drive units run in AFT direction<br>In ball mat area<br>- Transversal power drive units do not run. |
| 8. Repeat step 6. | |
| 9. On cargo loading system control panel<br>- Release pressure on joystick.<br>- Select POWER switch to OFF. | On cargo compartment floor<br>- Electrical power to power drive units is disconnected. |
| 10. In door sill area<br>- Raise manually operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light goes off. |
| 11. On cargo loading system control panel<br>- Display warning notice. | |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(3)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(4)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove warning notice.
(7)Remove access platform.

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).
- Forward services ventilation system in operation.
- Safety clips and tags removed and circuit breakers 1MY, 6MY and/or 501MY and 506MY closed.
- FWD or AFT cargo compartment door opened and safety lock installed.
- All container latches and pallet latches lowered.
- Manually-operated YZ-latch on each door sill latch lowered.
- Warning notice removed from cargo loading system control panel.
- POWER switch on cargo loading system control panel set to ON.




BM6 25 52 26 4 BEF0 00

Limit Switch/Drive Unit Control AFT Compartment
Figure 410

| ACTION | RESULT |
|---|---|
| 1. On cargo loading system control panel<br>- Select joystick to **IN** and hold. | In ball mat area<br>- Transversal power drive units run in **IN** direction<br>On cargo compartment floor<br>- Longitudinal power drive units do not run. |
| 2. In ball mat area<br>- Raise each latch in turn<br>- Lower each latch in turn. | <br>Associated power drive unit stops<br>Associated power drive unit runs. |
| 3. On cargo loading system control panel<br>- Centralize joystick, select to **OUT** and hold. | In ball mat area<br>- Transversal power drive units run in **OUT** direction<br>On cargo compartment floor<br>- Longitudinal power drive units do not run. |
| 4. Repeat step 2. | |
| 5. On cargo loading system control panel<br>- Centralize joystick, select to **FWD** and hold. | On cargo compartment floor<br>- Longitudinal power drive units run in **FWD** direction<br>In ball mat area<br>- Transversal and longitudinal power drive units do not run. |
| 6. In ball mat area<br>- press interlock switches<br>- release interlock switches | <br>- Longitudinal power drive units run in **FWD** direction<br>- Longitudinal power drive units stop |
| 7. On cargo compartment floor<br>- Raise latch associated to newly installed power drive unit<br>- Lower latch. | <br>Power drive unit stops<br><br>Power drive unit runs. |
| 8. On cargo loading system control panel<br>- Centralize joystick, select to **AFT** and hold. | On cargo compartment floor<br>- Longitudinal power drive units run in **AFT** direction<br>In ball mat area<br>- Transversal and longitudinal power drive units do not run. |
| 9. In ball mat area<br>- press interlock switches<br>- release interlock switches | <br>- Longitudinal power drive units run in **AFT** direction.<br>- Longitudinal power drive units stop |

| ACTION | RESULT |
|---|---|
| 10. Repeat step 7. | |
| 11. On cargo loading system control panel<br>- Release pressure on joystick.<br>- Select POWER switch to OFF. | On cargo compartment floor<br>- Electrical power to power drive units is disconnected. |
| 12. In door sill area<br>- Raise manually operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light goes off. |
| 13. On cargo loading system control panel<br>- Display warning notice. | |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ball mats/strips (Ref. 25-52-22, P. Block 401).
(3)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

## INTERLOCK SWITCH - REMOVAL/INSTALLATION

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Wooden/Plastic Scraper |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-016 | Sealants (Ref. 20-31-00) |
| J. Material No. 09-013 | Sealants (Ref. 20-31-00) |
| K. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-26, P. Block 401 | Removal/Installation of Power Drive Units |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

R **ON A/C 001-104,

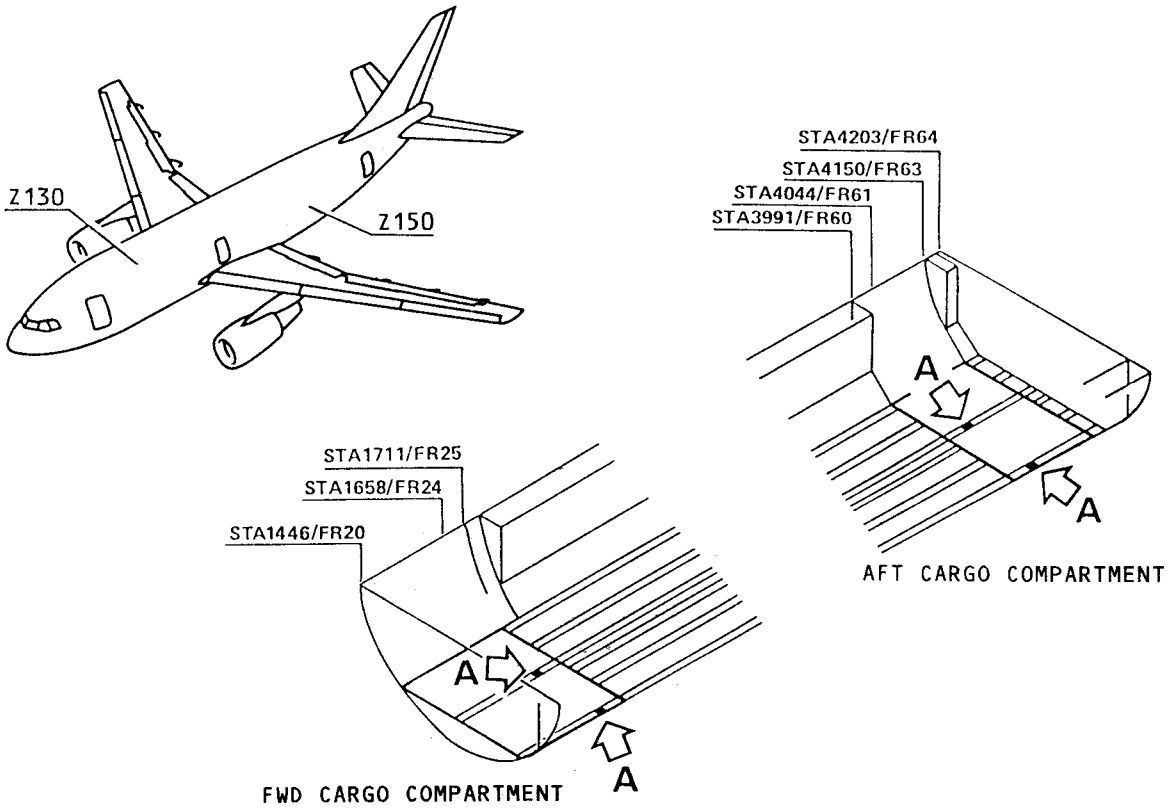
R Post SB 25-2079 For A/C 001-104,

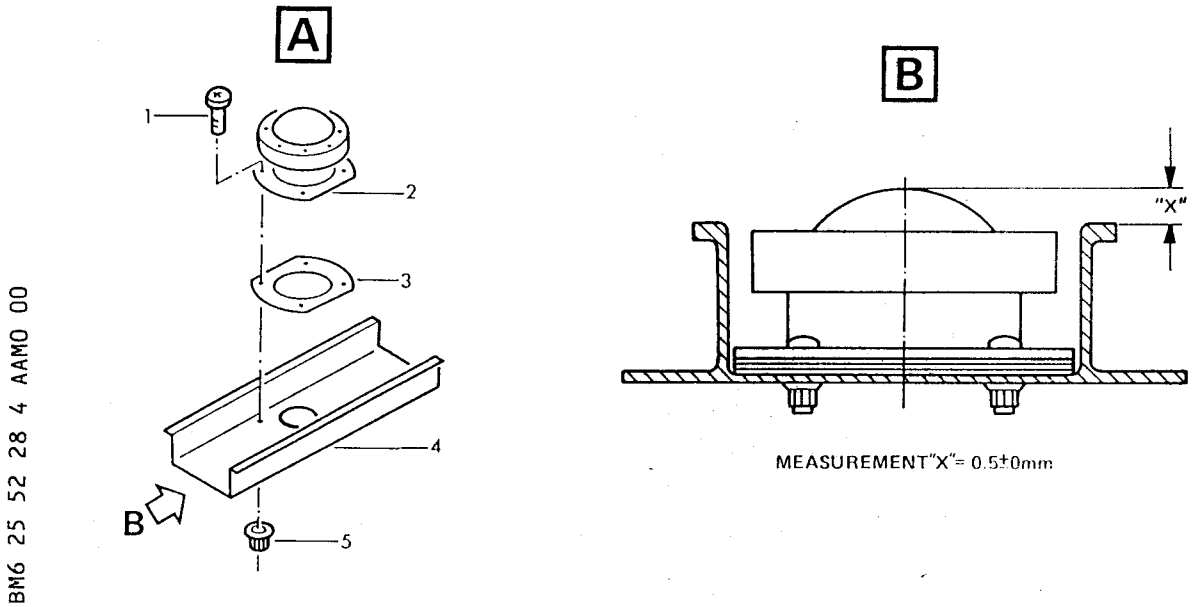
(Ref. Fig. 401)

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.




Interlock Switch
Figure 401

(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | DC-CONTROL | 101MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | DC-CONTROL | 601MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartment

(8)Remove related ball mats/strips to get access to the interlock switch (Ref. 25-52-22, P. Block 401).

B. Removal

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

(1)Remove screws (1) and nuts (5) from interlock switch (2).
(2)Lift interlock switch (2) carefully to get access to electrical connector.
(3)Disconnect electrical connector from interlock switch (2).
(4)Put blanking caps on disconnected electrical connectors.
(5)Remove interlock switch (2) and shims (3) from roller track (4).

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE

A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove residual sealant from interlock switch (2), shim (3) and from roller track (4) with CLEANING AGENTS (Material No. 11-003) and a wooden or plastic scraper.
(2)Clean component interface and/or adjacent area.
(3)Do a visual inspection of component interface and/or adjacent area.
(4)Make sure that surface of bonding point is correctly prepared (Ref. 20-28-11, P. Block 1).
(5)Apply SPECIAL MATERIALS (Material No. 05-002) to thread of screw (1).
(6)Apply a layer of SEALANTS (Material No. 09-018) to mating surface of proximity switch (2).

D. Installation

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

(1)Remove blanking caps from electrical connectors.
(2)Make sure that electrical connectors are clean and in correct condition.
(3)Connect electrical connector to receptacle of interlock switch (2).
(4)Lower and position interlock switch (2) together with shims (3) in roller track (4).

NOTE: The bushed hole must be used for the bonding screw.

(5)Install screws (1) and nuts (5).
(6)Protect bonding screw of bonding point (Ref. 20-28-11).
(7)Apply SPECIAL MATERIALS (Material no. 05-027) to screw (1).
(8)Apply SPECIAL MATERIAL (Material No. 05-005) to material applied to screw (1).

R **ON A/C 001-104,

R Post SB 25-2079 For A/C 001-104,

E. Test

(1)Test of interlock switch is given in Removal/Installation topic of the Power drive units (Ref. 25-52-26, P. Block 401).

F. Close-Up
(1)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(2)Open, safety and tag the circuit breakers 101MY and/or 601MY.
(3)Make sure that work area is clean and clear of tools and other items.

(4)Install ball mats/strips (Ref. 25-52-22, P. Block 401).
(5)Remove safety clips and tags and close circuit breakers 7GX, 23GX, 101MY and/or 601MY.
(6)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(7)Close FWD and/or AFT cargo compartment door (Ref. 52-30-00, P. Block 301).
(8)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(9)Remove warning notice.
(10)Remove access platform.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Wooden or Plastic Scraper |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| H. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| I. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

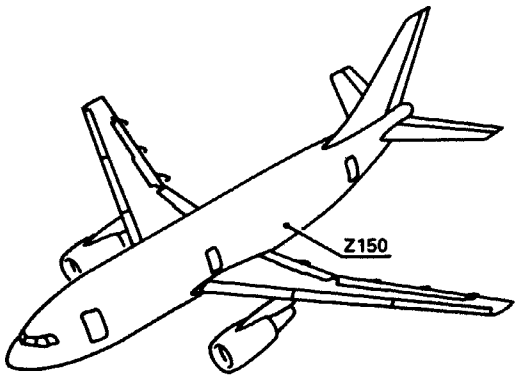
2. Procedure

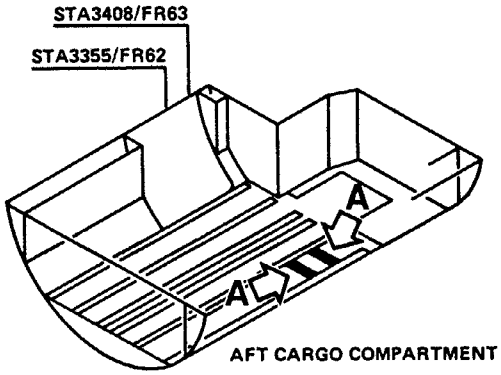
A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open AFT cargo compartment door (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock to AFT cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

(8)Remove ball mats/strips in area of retractable X-guide (Ref. 25-52-22, P. Block 401).

B. Removal
(Ref. Fig. 401)
(1)Support retractable X-guide (7).

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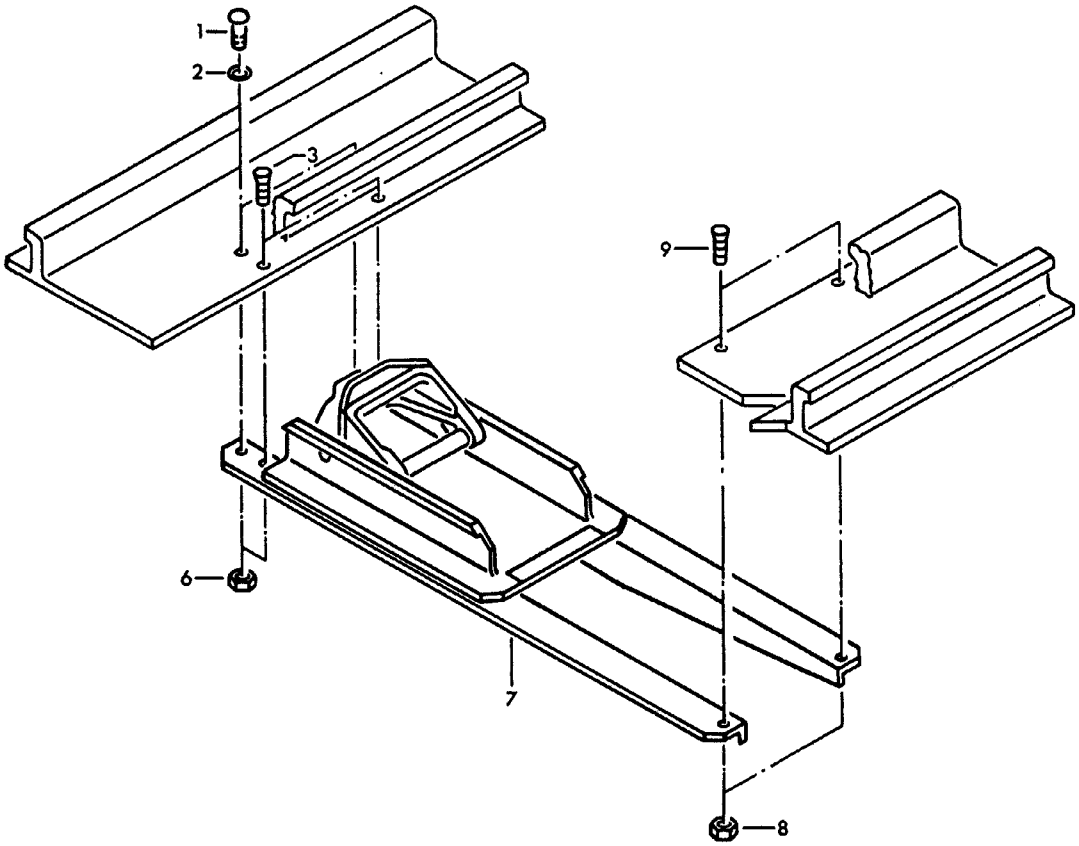



BM3 25 52 32 4 AAM0 28

Retractable X-Guide
Figure 401

(2)Remove screws (1) with nuts (6) and washers (2).
(3)Remove screws (3),(9) with nuts (6),(8).
(4)Remove retractable X-guide (7) from roller tracks.

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove remaining sealant from roller track and retractable X-guide with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

D. Installation (Ref. Fig. 401)

(1)Apply a layer of sealant (Material No. 09-016) to the contact surfaces of the retractable X-guide (7).
(2)Apply anti-corrosion compound (Material No. 05-002) to threads and shafts of screws (1),(3),(9).
(3)Position retractable X-guide (7) between roller tracks.
(4)Install screws (1),(3),(9) with washers (2) and nuts (6),(8).
(5)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(6)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements.

E. Close-Up

(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ball mats/strips (Ref. 25-52-22, P. Block 401).
(3)Remove safety clips and tags and close circuit breakers 7GX, 23GX, 501MY and 506MY.
(4)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(5)Close AFT cargo compartment door (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

# PALLET LATCH 42 AND LIMIT SWITCH REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Cotter Pins |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Warning Notice Prohibiting Operation of Cargo Loading System |
| E. | Wooden or Plastic Scraper |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| I. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| J. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| K. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

## 2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open AFT cargo compartment door (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock to AFT cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)If required remove ball mats in the area around pallet latches (Ref. 25-52-22, P. Block 401).
(8)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal

**ON A/C 101-200,

Post SB 28-2108 For A/C 101-200,

(Ref. Fig. 401)

**ON A/C 101-200,

(Ref. Fig. 402)
(1)Pallet Latch 42
(a)Remove cotter pins (2), attachment pins (3) and washers (5). Discard cotter pins (2).
(b)Remove pallet latch (1).
(2)Limit Switch Unit
(a)Remove pallet latch 42 (Ref. Para. 2.B.(1)).
(b)Remove screws (6) and (8) and washers (7).
(c)Disconnect electrical connector (10) and remove limit switch unit (9).
(d)Blank off electrical connectors.

C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.
(1)Limit Switch Unit
(a)Clean contact surface of roller track with cleaning agent (Material No. 11-003).
(b)If sealing is damaged, remove the old sealant with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(c)Apply a thin coat of sealant (Material No. 09-016) to contact surface of mounting plate and apply release agent (Material No. 05-013) to contact face of roller track.
(2)Pallet Latch 42
(a)Remove the old sealant from the pallet latch 42 (1) and from the roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

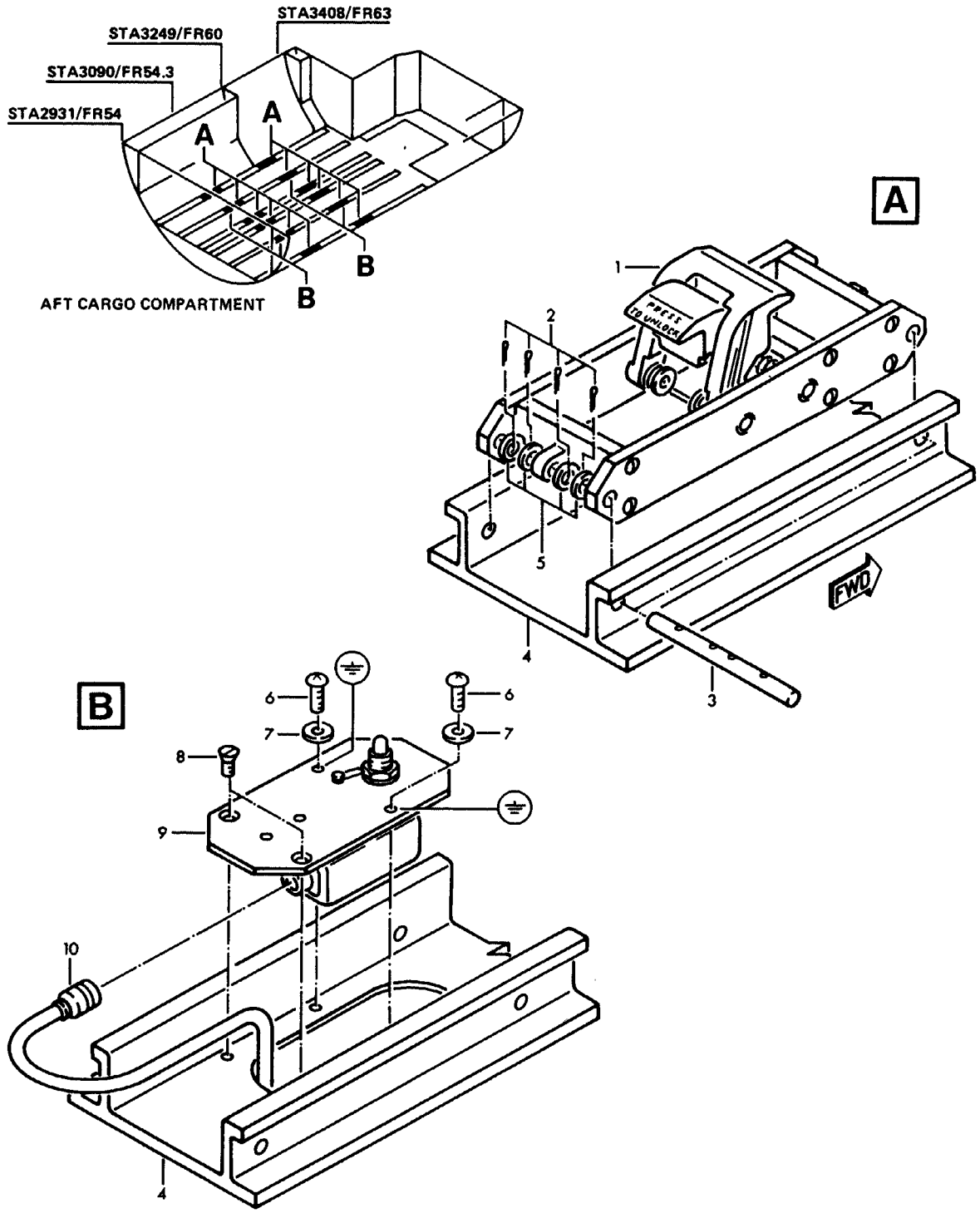
**ON A/C 101-200,

Post SB 28-2108 For A/C 101-200,

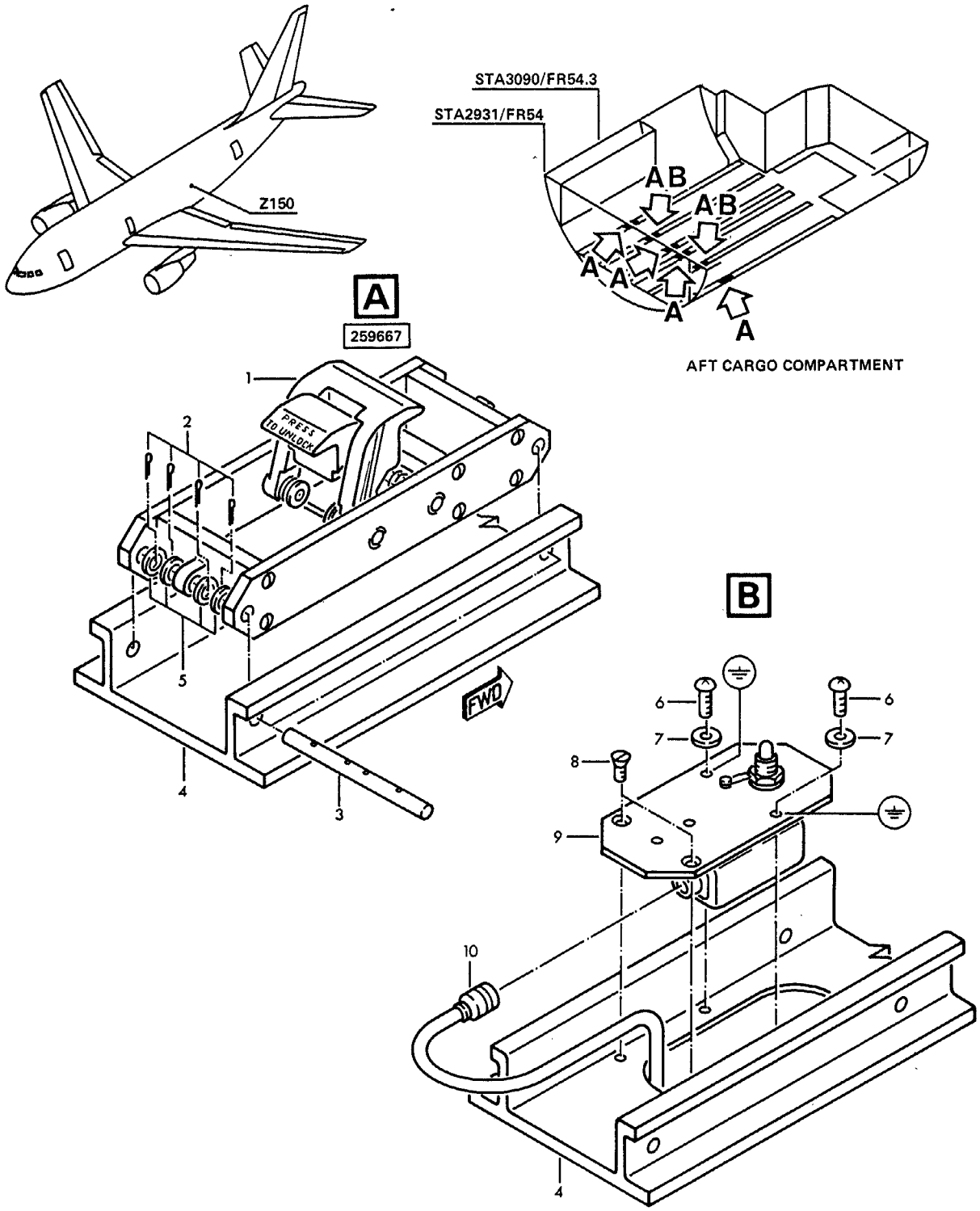
D. Installation (Ref. Fig. 401)

**ON A/C 101-200,

D. Installation (Ref. Fig. 402)




Pallet Latch 42 and Limit Switch
Figure 401

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Pallet Latch 42 and Limit Switch
Figure 402

(1)Limit Switch Unit
(a)Prepare bonding surfaces (Ref. 20-28-00, P. Block 1).
(b)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(c)Apply anti-corrosion compound (Material No. 05-002) to threads and shafts of screws (6),(8).
(d)Remove blanks from electrical connectors.
(e)Position limit switch unit (9) and connect electrical connector (10) to limit switch.
(f)Locate limit switch unit (9) in roller track (4) and install screws (6),(8) and washers (7).
(g)Apply corrosion preventive lubricant (Material No. 05-027) to screws (6),(8).
(h)Apply corrosion preventive (Material No. 05-005) to the material applied to the screws (6),(8).
(2)Pallet Latch 42
(a)Apply a layer of sealant (Material No. 09-016) to the contact surfaces of the pallet latch 42 (1).
(b)Position pallet latch (1) in roller track (4).
(c)Install attachment pins (3) with washers (5) and safety with new cotter pins (2).
(d)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(e)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the pallet latch 42 (1).
(f)Remove circuit breaker safety clips and tags and close circuit breakers 501MY and 601MY.

E. Test
Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).
- Forward services ventilation system in operation.
- Safety clips and tags removed and circuit breakers 501MY and 601MY closed.
- AFT cargo compartment door openend.

NOTE : For latches not equipped with limit switch only test steps 3 and 5 are applicable.

| ACTION | RESULT |
|---|---|
| 1. In door sill area<br>- Lower manually operated YZ-latch of door sill latches. | Cargo loading system control panel light comes on. |
| 2. On cargo loading system control panel<br>- Select POWER switch to ON. | Cargo loading system is energized. |
| 3. Raise pallet latch 42. | Latch locks in raised position. |

| ACTION | RESULT |
|---|---|
| 4. On cargo loading system control panel<br>- Select joystick to FWD. | On cargo compartment floor<br>- Power drive unit associated with raised pallet latch does not run. |
| 5. Lower raised pallet latch 42. | Latch lowers below level of roller track. |
| 6. On cargo loading system control panel<br>- Select joystick to FWD. | On cargo compartment floor<br>- Power drive unit associated to lowered pallet latch runs. |
| - Centralize joystick. | |
| - Select POWER switch to OFF. | Cargo loading system de-energized. |
| 7. In door sill area<br>- Raise manually operated YZ-latch of door sill latches. | On cargo loading control panel<br>- Cargo loading system control panel light goes off. |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ball mats when removed (Ref. 25-52-22, P. Block 401).
(3)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(4)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(5)Close AFT cargo compartment door (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

## CONTAINER LATCH 42 259633 (259651) AND LIMIT SWITCH REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Cotter Pins |
| C. | Wooden or Plastic Scraper |
| D. | Circuit Breaker Safety Clips and Tags |
| E. | Warning Notice Prohibiting Operation of Cargo Loading System |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Speical Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| I. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| J. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| K. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

### 2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on cargo loading system control panel.
(7)Remove ball mats in area around container latches as necessary (Ref. 25-52-22, P. Block 401).
(8)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartments

B. Removal

R **ON A/C 001-100,

(Ref. Fig. 401)

R **ON A/C 101-200,

(Ref. Fig. 402)

R **ON A/C 101-200,

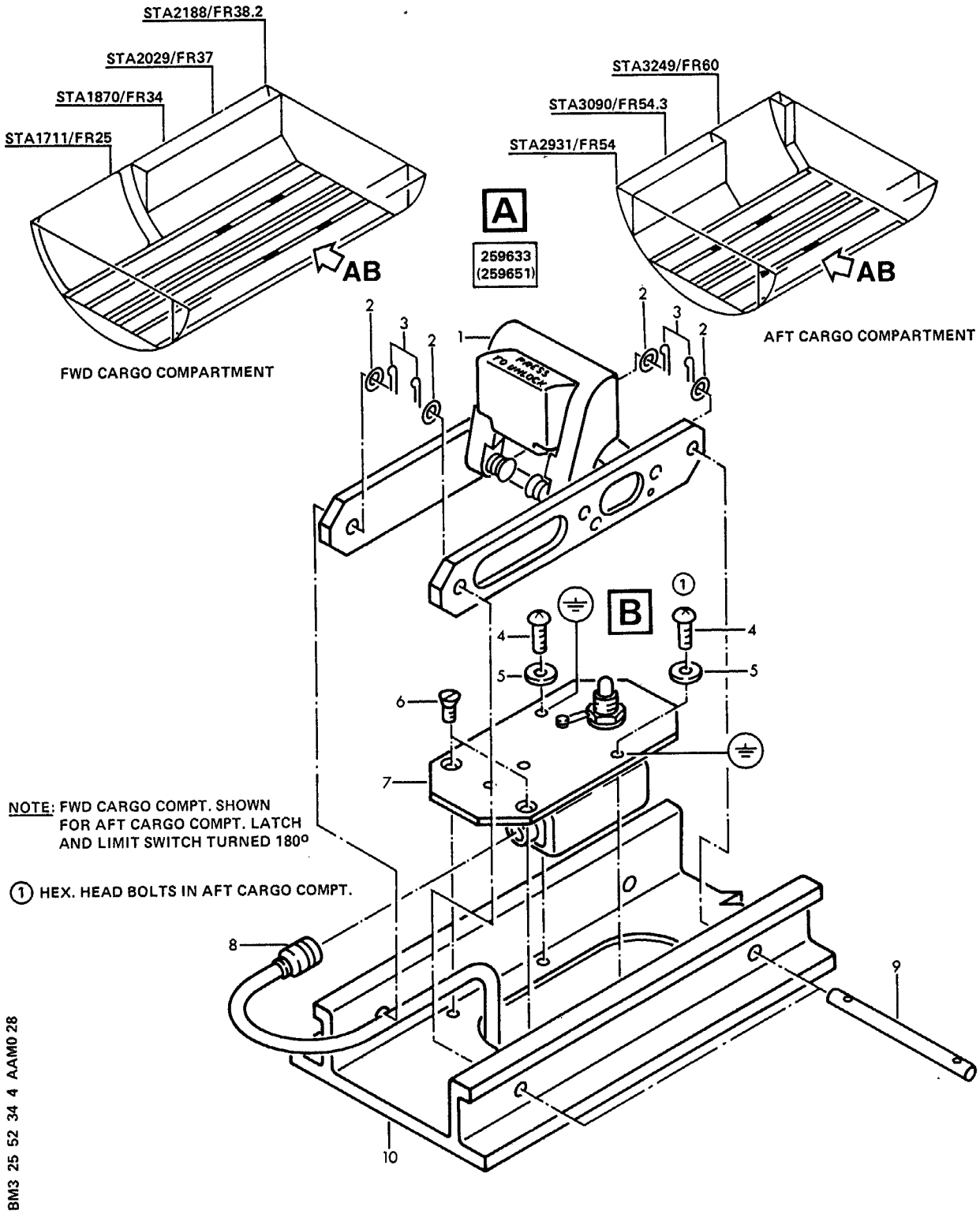
R Post SB 28-2105 For A/C 101-200,

R (Ref. Fig. 403)

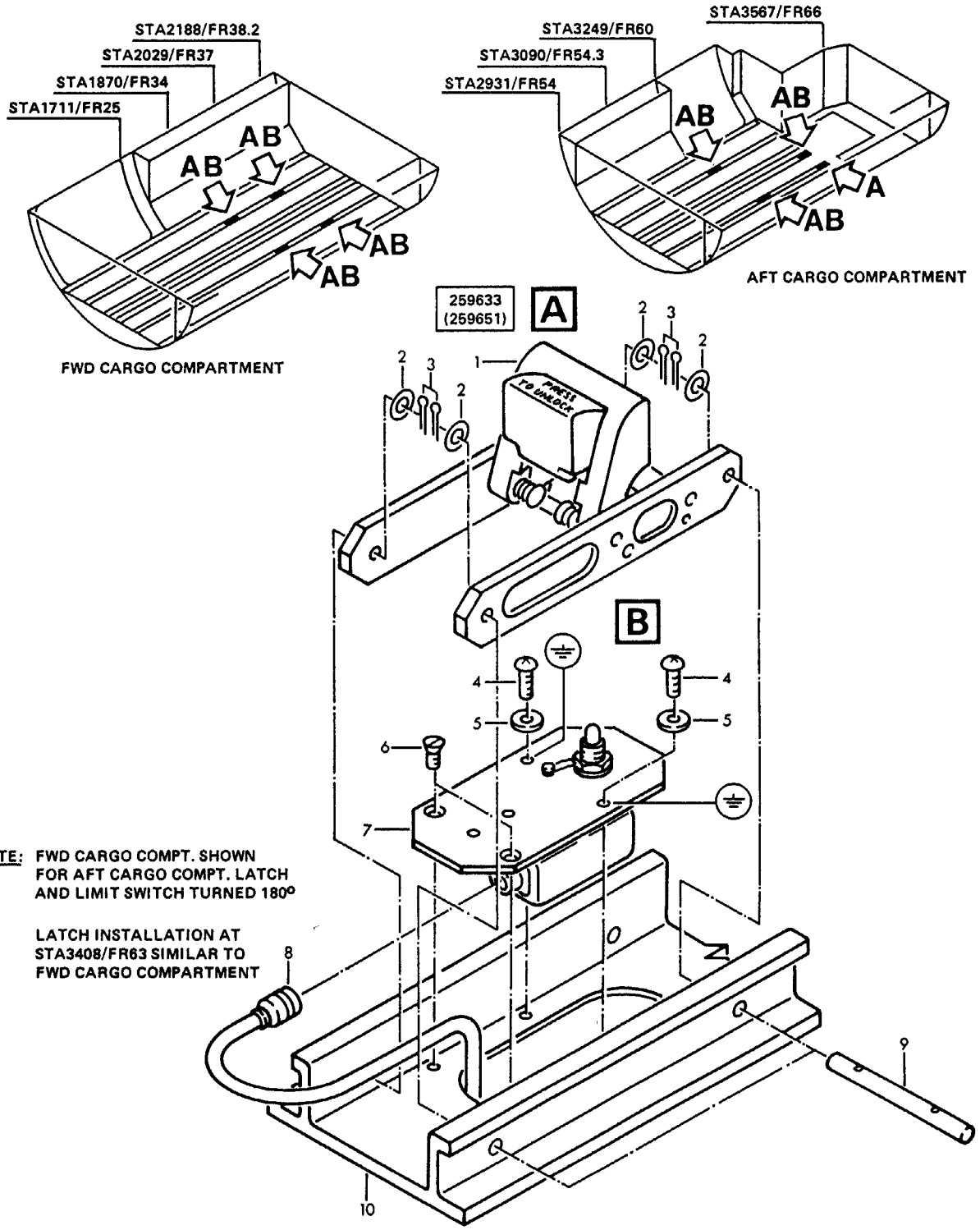
R **ON A/C ALL

(1)Container Latch 42
(a)Remove cotter pins (3), attachment pins (9) and washers (2).
(b)Discard cotter pins (3).
(c)Lift and remove container latch (1).
(2)Limit Switch Unit
(a)Remove container latch 42 (Ref. Para. 2.B.(1)).
(b)Remove screws (6),(4) and washers (5).
(c)Carefully raise limit switch unit (7), disconnect electrical connector (8) and remove limit switch unit (7).
(d)Blank off electrical connectors.

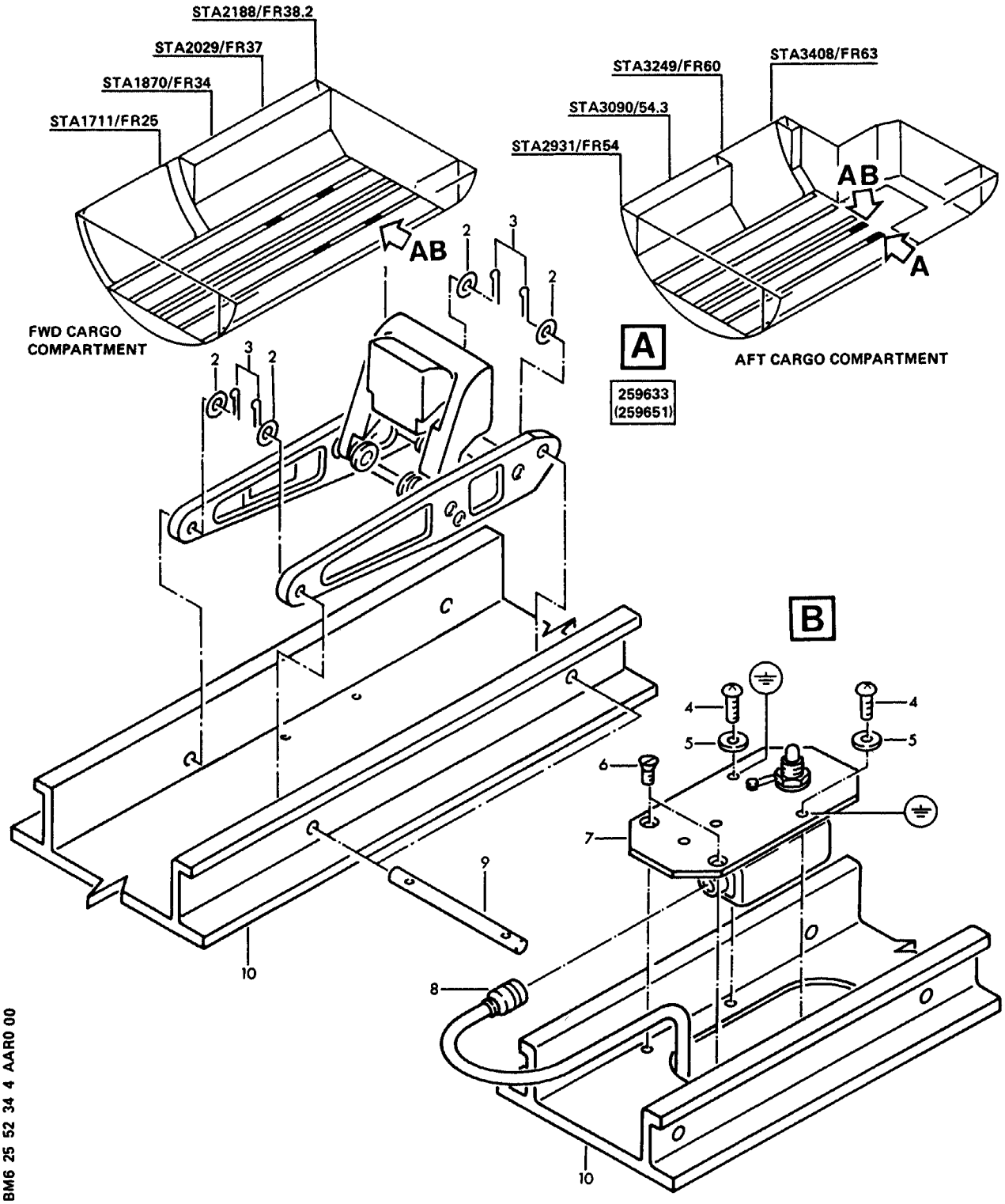
C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY




Container Latch 42 and Limit Switch
Figure 401




Container Latch 42 and Limit Switch
Figure 402




Container Latch 42 and Limit Switch
Figure 403

FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Limit Switch Unit
(a)Clean contact surface of roller track with cleaning agent (Material No. 11-003).
(b)If sealing is damaged, remove the old sealant with cleaning agent (Material No. 11-003) and a wooden or elastic scraper.
(c)Apply a thin coat of sealant (Material No. 09-016) to contact surface of mounting plate and apply release agent (Material No. 05-013) to contact face of roller track.
(2)Container Latch 42
(a)Remove the old sealant from the container latch 42 (1) and from the roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

D. Installation

R **ON A/C 001-100,

(Ref. Fig. 401)

R **ON A/C 101-200,

(Ref. Fig. 402)

R **ON A/C 101-200,

R Post SB 28-2105 For A/C 101-200,

R (***//AARO//***)

R **ON A/C ALL

(1)Limit Switch Unit
(a)Prepare bonding surfaces (Ref. 20-28-11, P. Block 1)
(b)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(c)Remove blanks from electrical connectors.
(d)Position limit switch unit (7) and connect electrical connector (8) to limit switch unit (7).
(e)Locate limit switch unit (7) in roller track (10) and install screws (6),(4) and washers (5).
(f)Apply corrosion preventive lubricant (Material No. 05-027) to heads of screws (6).
(g)Apply corrosion preventive (Material No. 05-005) to the material applied to heads of screws (6).
(h)Install container latch 42 (Ref. Para. 2.D.(2)).
(2)Container Latch 42
(a)Apply a layer of sealant (Material No. 09-016) to the contact surfaces

of the container latch 42 (1).
(b)Position container latch 42 (1) in roller track (10).
(c)Install attachment pins (9) with washers (2) and safety with new cotter pins (3).
(d)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(e)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the pallet latch 42 (1).

R **ON A/C 101-200,

R Post SB 28-2105 For A/C 101-200,

(f)Remove safety clips and tags and close circuit breakers 1MY and 6MY.

E. Test
Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).
- Forward services ventilation system in operation.
- Safety clips and tags removed and circuit breakers 1MY and 6MY closed.
- FWD cargo compartment door opened.

R **ON A/C ALL

(f)Remove safety clips and tags and close circuit breakers 1MY, 5MY and/or 501MY and 506MY.

E. Test
Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).
- Forward services ventilation system in operation.
- Safety clips and tags removed and circuit breakers 1MY, 6MY and/or 501MY, 506MY closed.
- FWD and/or AFT cargo compartment door(s) opened and door actuator safety lock(s) installed.

R **ON A/C 101-200,

NOTE : For container latches 42 without limit switch, only test steps 3. and 5. are applicable.

R **ON A/C ALL

| ACTION | RESULT |
|---|---|
| 1. In door sill area<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |

| ACTION | RESULT |
|---|---|
| 2. On cargo loading system control panel<br>- Select **POWER** switch to **ON**. | Cargo conveyance system is ready for operation. |
| 3. On cargo compartment floor<br>- Raise container latch 42. | Latch locks in raised position. |
| 4. On control panel<br>- Select joystick to **FWD**. | On cargo compartment floor<br>- Power drive unit associated with raised container latch does not run. |
| - Centralize joystick. | |
| 5. On cargo compartment floor<br>- Lower raised container latch 42. | Latch lowers below level of roller track. |
| 6. On control panel<br>- Select joystick to **FWD**. | On cargo compartment floor<br>- Power drive unit associated with lowered container latch runs in **FWD** direction. |
| - Centralize joystick. | On cargo compartment floor<br>- Power drive unit stops. |
| - Select **POWER** switch to **OFF**. | Electrical power to power drive unit is disconnected. |
| 7. In door sill area<br>- Raise manually operated YZ-latch of door sill latches. | On control panel<br>- Control panel light goes off. |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ball mats as necessary (Ref. 25-52-22, P. Block 401).
(3)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close **FWD** and/or **AFT** cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

PALLET LATCH 19 259637 -
REMOVAL/INSTALLATION

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Saftey Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Cotter Pins |
| E. | Wooden or Plastic Scraper |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| I. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| J. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| K. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock to FWD cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

R **ON A/C 001-100, 105-200,

(8)Remove ball mats in area around pallet latches as necessary (Ref. 25-52-22, P. Block 401).

**ON A/C ALL

B. Removal

R **ON A/C 001-100, 105-200,

(Ref. Fig. 401)

R **ON A/C 101-104,

(Ref. Fig. 402)

R **ON A/C 001-100, 105-200,

(1)Pallet Latch 19
(a)Remove cotter pins (3), attachment pins (4) and washers (2). Discard cotter pins (3).
(b)Lift and remove pallet latch 19 (1).

R **ON A/C 101-104,

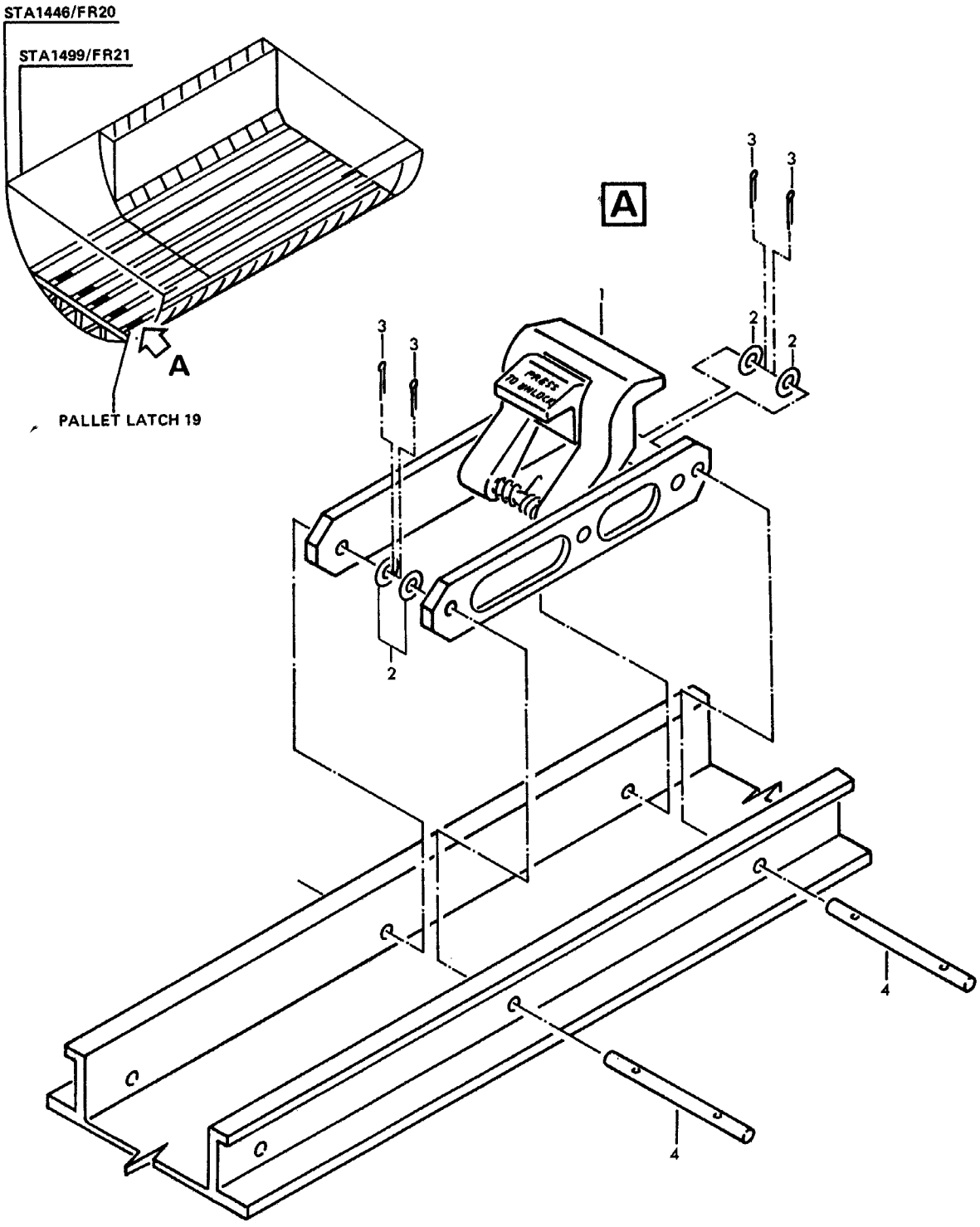
(2)Limit Switch Unit
(a)Remove pallet latch 19 (1) (Ref. Para. 2.B.(1)).
(b)Remove screws (8) and screws (6) with washers (7).
(c)Raise limit switch unit (9), disconnect electrical connector (10) and remove limit switch unit (9).
(d)Blank off electrical connectors.

R **ON A/C 001-100, 105-200,

C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.
(1)Remove the old sealant from the pallet latch 19 (1) and from the roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

R **ON A/C 101-104,

C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE

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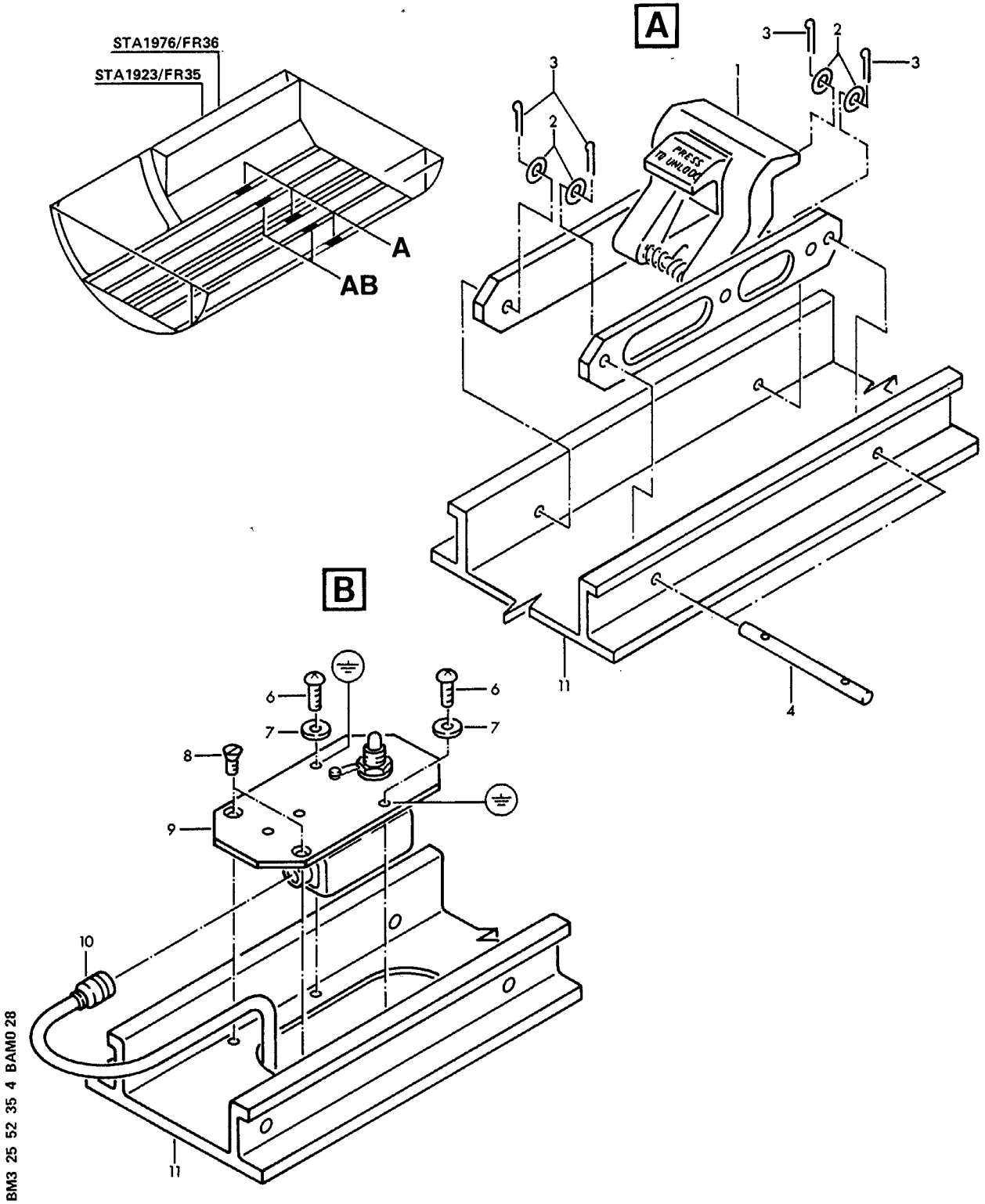
Pallet Latch 19
Figure 401




Pallet Latch 19 and Limit Switch
Figure 402

A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Pallet Latch 19
(a)Remove the old sealant from the pallet latch 19 and from the roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(2)Limit Switch Unit
(a)Clean contact face of roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(b)If sealing is damaged, remove the old sealant from mounting plate with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(c)Apply a thin coat of sealant (Material No. 09-016) to contact face of mounting plate (8)and apply release agent (Material No. 05-013) to contact face of rollertrack.

D. Installation (Ref. Fig. 402)

R **ON A/C 001-100, 105-200,

D. Installation (Ref. Fig. 401)

R **ON A/C 101-104,

(1)Limit Switch Unit
(a)Prepare bonding surfaces (Ref. 20-28-11, P. Block 1).
(b)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(c)Remove blanks from electrical connectors.
(d)Position limit switch unit (9) and connect electrical connector (10) to limit switch.
(e)Apply anti-corrosion compound (Material No. 05-002) to threads and shafts of screws (8),(6).
(f)Locate limit switch unit (9) in roller track (11) and install washers (7), screws (6) and screws (8).
(g)Apply corrosion preventive lubricant (Material No. 05-027) to screws (15).
(h)Apply corrosion preventive (Material No. 05-005) to the material applied to the screws (15).
(i)Install pallet latch 19 (Ref. Para. 2.D.(2)).
(2)Pallet Latch 19
(a)Apply a layer of sealant (Material No. 09-016) to the contact surfaces of the pallet latch 19 (1).
(b)Position pallet latch 19 (1) in roller track (11).
(c)Install attachment pins (4) with washers (2) and safety with new cotter pins (3).
(d)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(e)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the pallet latch 19 (1).

R **ON A/C 001-100, 105-200,

(1)Apply a layer of sealant (Material No. 09-016) to the contact surface of the pallet latch 19 (1).
(2)Position pallet latch 19 (1) in roller track.
(3)Install spindles (4) with washers (2) and safety with new cotter pins (3).
(4)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(5)Apply corrosion preventive (Material No. 05-005) to the attachment elements and to the edges of the pallet latch 19 (1).

R **ON A/C 101-104,

E. Test
Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).
- Forward service ventilation system in operation.
- Safety clips and tags removed and circuit breakers 1MY and 6MY.
- FWD cargo compartment door opened.

NOTE : The pallet latches 19 on the outer LH and RH roller tracks (Y1470 and -Y1470) and on the roller track LH of the compartment center line (Y140) are not equipped with a limit switch. Only test steps 3. and 5. are applicable.

| ACTION | RESULT |
|---|---|
| 1. In door sill area<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On cargo loading system control panel<br>- Select POWER switch to ON. | Cargo conveyance system is ready for operation. |
| 3. On cargo compartment floor<br>- Raise pallet latch 19. | Pallet latch 19 locks in raised position. |
| 4. On cargo loading control panel<br>- Select joystick to FWD<br><br>- Centralize joystick | On cargo compartment floor<br>- Power drive unit, associated with raised pallet latch 19, does not run. |
| 5. On cargo compartment floor<br>- Lower raised pallet latch 19 | Pallet latch 19 lowers below level of roller track. |
| 6. On cargo loading control panel<br>- Select joystick to FWD. | On cargo compartment floor<br>- Power drive unit associated with |

| ACTION | RESULT |
|---|---|
| | lowered pallet latch 19, runs in FWD direction. |
| - Centralize joystick. | On cargo compartment floor<br>- Power drive unit stops. |
| - Select POWER switch to OFF. | - Electrical power to power drive unit is disconnected. |
| 7. In door sill area<br>- Raise manually-operated YZ-latch of door sill latches. | On cargo loading control panel<br>- Control panel light goes off. |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(3)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(4)Close FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove warning notice.
(7)Remove access platform.

R **ON A/C 001-100, 105-200,

E. Test

| ACTION | RESULT |
|---|---|
| 1. In ball mat area<br>- Raise pallet latch 19. | Pallet latch 19 locks in raised position. |
| 2. In ball mat area<br>- Lower pallet latch 19. | Pallet latch lowers below level of roller tracks. |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ball mats as necessary (Ref. 25-52-22, P. Block 401).
(3)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 7GX and 23GX.
(4)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(5)Close FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

(7)Remove warning notice.
(8)Remove access platform.

# PALLET LATCH 19/19 - 259635 AND LIMIT SWITCH REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Wooden or Plastic Scraper |
| D. | Circuit Breaker Safety Clips and Tags |
| E. | Cotter Pins |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| I. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| J. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| K. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 53-10-29, P. Block 401 | FWD Cargo Compartment Floor Panels |

## 2. Procedure

A. Job Set-Up
(1) Position access platform.
(2) Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3) Make certain that electronics racks ventilation is correct.
(4) Open FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(5) Install door actuator safety lock to FWD cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(6) Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7) Remove ball mats (Ref. 25-52-22, P. Block 401) and/or FWD cargo compartment floor panels (Ref. 53-10-29, P. Block 401) in the area around pallet latches as necessary.
(8) Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal

R **ON A/C 101-104,

(Ref. Fig. 401)

R **ON A/C 001-100, 105-200,

(Ref. Fig. 402)

**ON A/C ALL

(1)Pallet Latch 19/19
(a)Remove cotter pins (3), spindles (4) and washers (5). Discard cotter pins (3).
(b)Lift and remove pallet latch (1) from roller track (11).
(2)Limit Switch Unit
(a)Remove pallet latch 19/19 (Ref. Para. 2.B.(1)).
(b)Remove screws (6),(8), and washers (7).
(c)Carefully raise limit switch unit (9), disconnect electrical connector (10) and remove limit switch unit (9).
(d)Blank off electrical connectors.

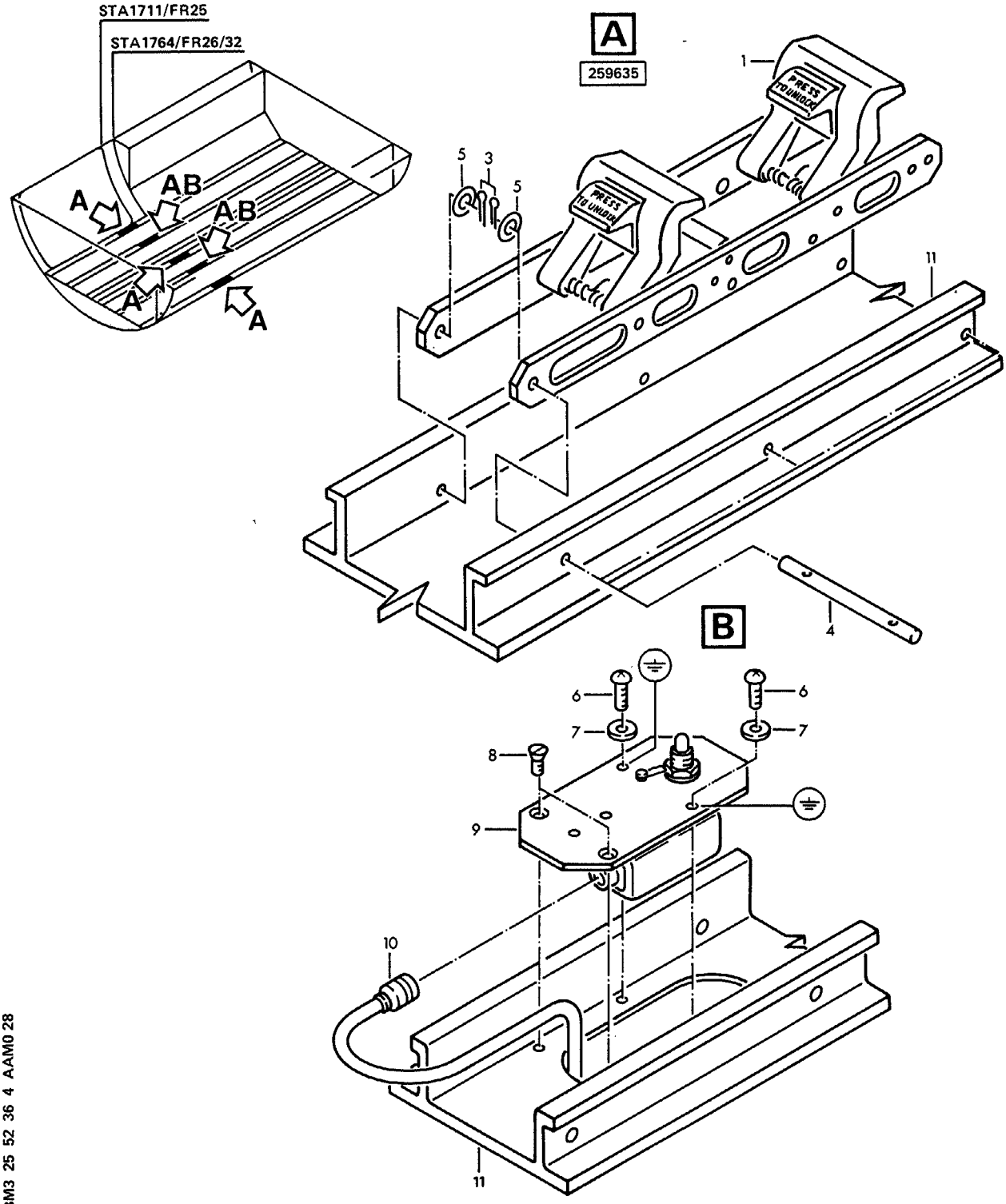
C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.
(1)Limit Switch Unit
(a)Clean contact surface of roller track (2) with cleaning agent (Material No. 11-003).
(b)Apply release agent (Material No. 05-013) to contact face of roller track (11).
(c)If sealing is damaged, remove the old sealant with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(d)Apply a thin coat of sealant (Material No. 09-016) to the contact face of mounting plate.
(2)Pallet Latch 19/19
(a)Remove the old sealant from the pallet latch 19/19 and from the roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

R **ON A/C 101-104,

D. Installation (Ref. Fig. 401)

R **ON A/C 001-100, 105-200,

D. Installation (Ref. Fig. 402)

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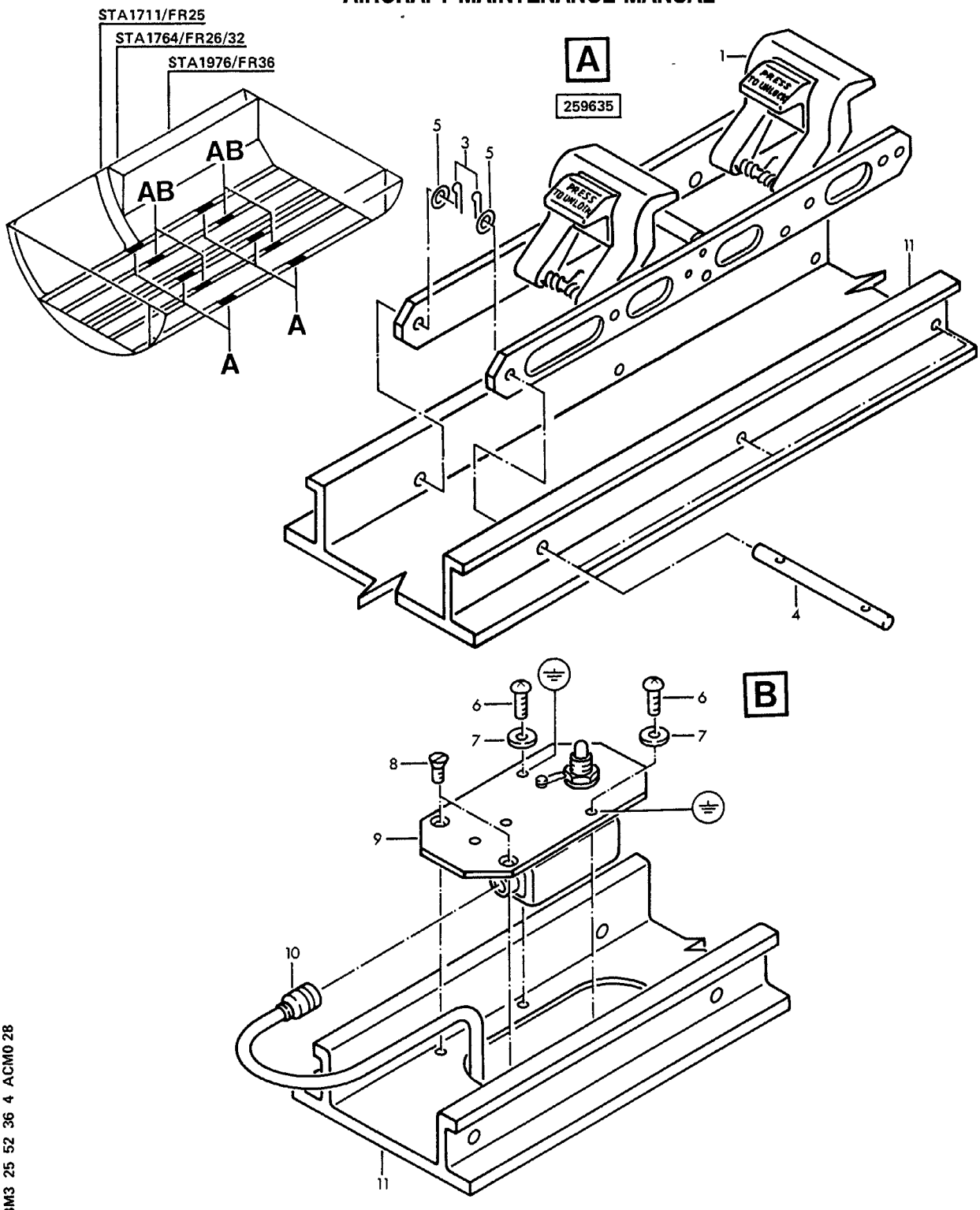
Pallet Latch 19/19 and Limit Switch
Figure 401




Pallet Latch 19/19 and Limit Switch
Figure 402

R **ON A/C ALL

(1)Limit switch
(a)Prepare bonding surfaces (Ref. 20-28-11, P. Block 1)
(b)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(c)Remove blanks from electrical connectors.
(d)Position limit switch unit (9) and connect electrical connector (10) to limit switch.
(e)Locate limit switch unit (9) in roller track (11).
(f)Apply special materials (Material No. 05-002) to threads of screws (6),(8).
(g)Install screws (6),(8) with washers (7).
(h)Install pallet latch 19/19 (1) (Ref. 2.C.(2)).
(2)Pallet Latch 19/19
(a)Apply a layer of sealant (Material No. 09-016) to the contact surfaces of the pallet latch 19/19 (1).
(b)Position pallet latch 19/19 (1) in roller track (11).
(c)Install spindles (4) with washers (5) and safety with new cotter pins (3).
(d)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(e)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the pallet latch 19/19 (1).
(3)Remove safety clips and tags and close circuit breakers 1MY and 6MY.
(4)Remove warning notice.

E. Test
Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).
- Forward services ventilation system in operation.
- Safety clips and tags removed and circuit breakers 1MY and 6MY closed.
- FWD cargo compartment door opened.
- Door actuator safety lock installed.
- Warning notice removed from cargo loading system control panel.

NOTE : The pallet latches 19/19 on the outer LH and RH roller tracks (Y1470 and -Y1470) and on the roller track LH of the compartment center line (Y140) are not equipped with a limit switch. Only test steps 3. and 5. are applicable.

| ACTION | RESULT |
|---|---|
| 1. In door sill area<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On cargo loading system control panel<br>- Select POWER switch to ON. | Cargo conveyance system is ready for operation. |
| 3. On cargo compartment floor | |

| ACTION | RESULT |
|---|---|
| - Raise pallet latch 19/19. | Latch locks in raised position. |
| 4. On control panel<br>- Select joystick to FWD.<br>- Centralize joystick. | On cargo compartment floor<br>- Power drive unit, associated with raised pallet latch, does not run. |
| 5. On cargo compartment floor<br>- Lower raised pallet latch 19/19. | Latch lowers below level of roller track. |
| 6. On control panel<br>- Select joystick to FWD.<br>- Centralize joystick.<br>- Select POWER switch to OFF. | On cargo compartment floor<br>- Power drive unit associated with lowered pallet latch, runs in FWD direction.<br>On cargo compartment floor<br>- Power drive unit stops.<br>- Electrical power to power drive unit is disconnected. |
| 7. In door sill area<br>- Raise manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light goes off. |

F. Close-Up
(1) Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(2) Open, safety and tag circuit breakers 1MY and 6MY.
(3) Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(4) Install ball mats (Ref. 25-52-22, P. Block 401) and/or FWD cargo compartment floor panels (Ref. 53-10-29, P. Block 401) as necessary.
(5) Remove safety clips and tags and close circuit breakers 1MY, 6MY, 7GX and 23GX.
(6) Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(7) Close FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(8) De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(9) Remove warning notice.
(10) Remove access platform.

## CONTAINER LATCH 47 259634 (259652) AND LIMIT SWITCH REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Wooden or Plastic Scraper |
| E. | Cotter Pins |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| I. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| J. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| K. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| Referenced Procedures | |
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

### 2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on cargo loading system control panel.
(7)If necessary, remove ball mats in the area around container latches (Ref. 25-52-22, P. Block 401).
(8)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal

** For FWD and/or AFT Cargo Compartment(s)

R **ON A/C 001-100,

(Ref. Fig. 401)

R **ON A/C 101-200,

(Ref. Fig. 402)

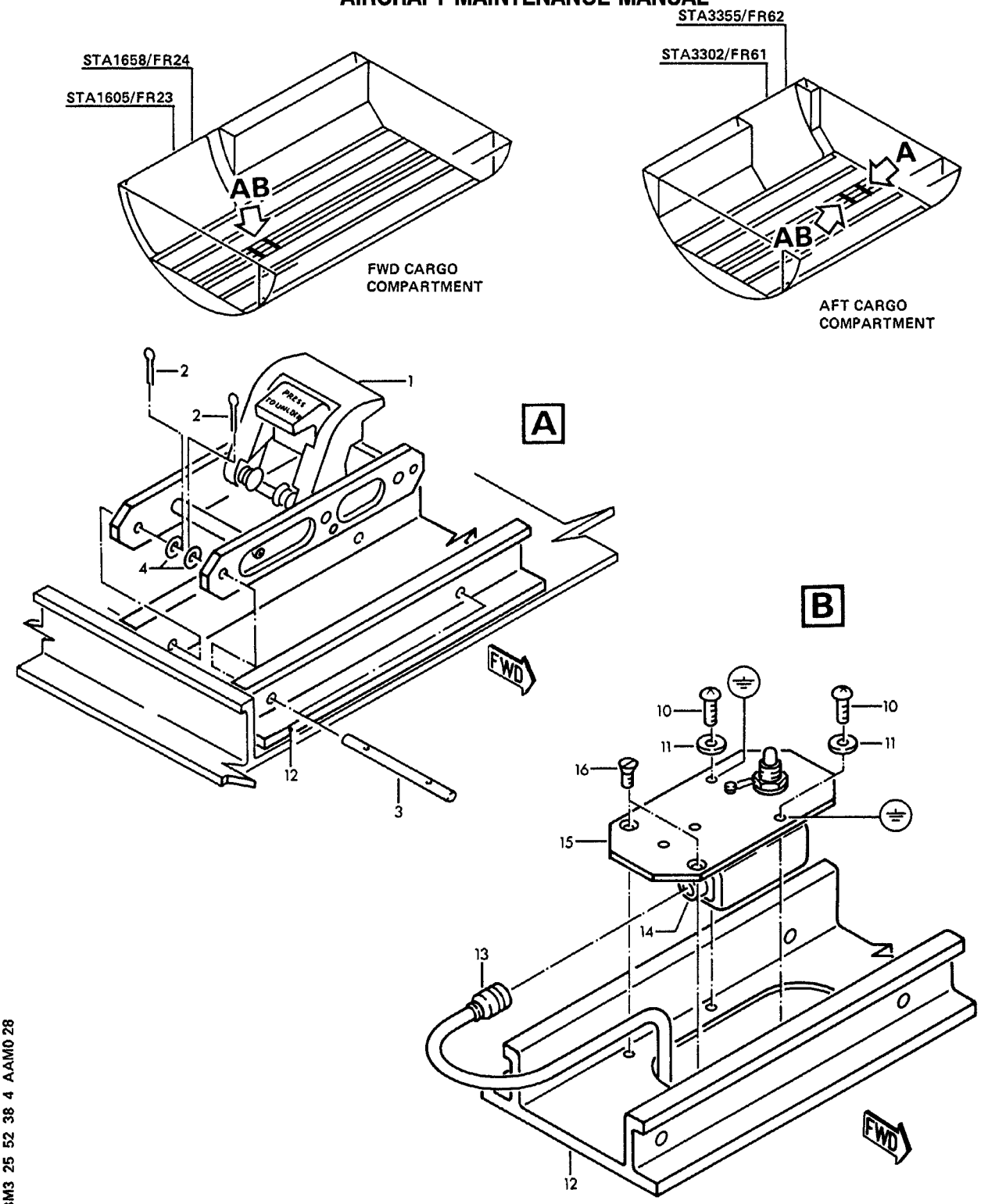
R **ON A/C ALL

(1)Container Latch 47
(a)Remove and discard cotter pins (2).
(b)Remove spindles (3) and washers (4).
(c)Lift and remove container latch (1) from roller track (12).
(2)Limit Switch Unit
(a)Remove screws (16),(10) and washers (11).
(b)Carefully raise limit switch unit (15) out of roller track (12).
(c)Disconnect electrical connector (13) from receptacle (14).
(d)Put blanking caps on electrical connector (13) and receptacle (14).
(e)Remove limit switch unit (15).

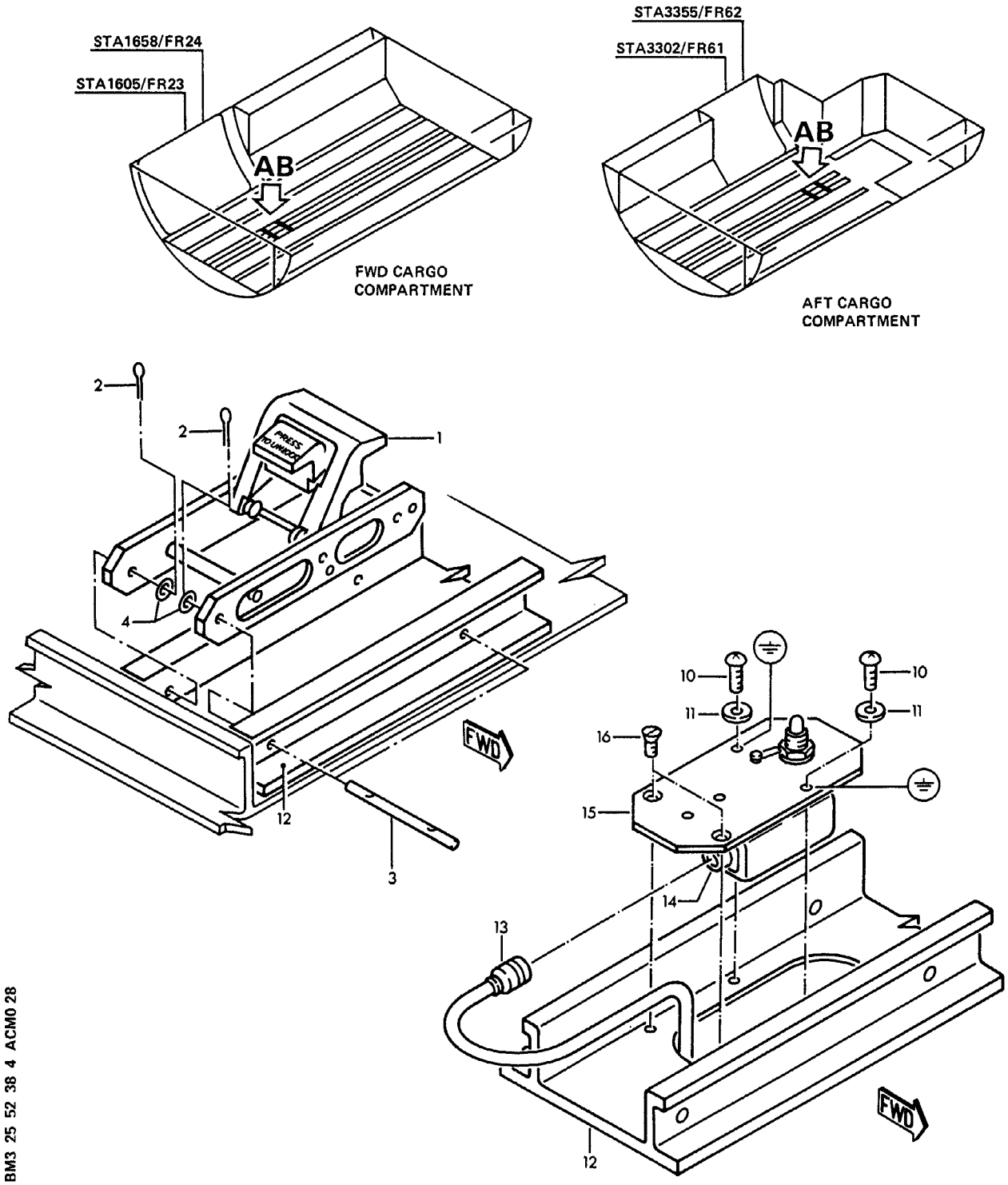
C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Clean the contact surface of roller track (12) with cleaning agent (Material No. 11-003) and apply special material (Material No. 05-013).
(2)When the sealant on contact surface of limit switch unit (15) is




Container Latch 47 and Limit Switch
Figure 401




Container Latch 47 and Limit Switch
Figure 402

damaged, remove it with a wooden or plastic scraper.
(3)If old sealant is removed, apply a thin layer of sealant (Material No. 09-016) to contact surface of limit switch unit (15).
(4)Prepare bonding surface (Ref. 20-28-11, P. Block 1).

D. Installation

** For FWD and/or AFT Cargo Compartment(s)

R **ON A/C 001-100,

(Ref. Fig. 401)

R **ON A/C 101-200,

(Ref. Fig. 402)

R **ON A/C ALL

(1)Limit Switch Unit
(a)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(b)Remove blanking caps from electrical connector (13) and receptacle (14).
(c)Connect electrical connector (13) to receptacle (14).
(d)Position limit switch unit (15) in roller track (12).
(e)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (10),(16).
(f)Install screws (16),(10) and washers (11).
(g)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(h)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the mounting plate.
(2)Container Latch 47
(a)Apply a layer of sealant (Material No. 09-016) to contact surface of container latch (1).
(b)Position container latch (1) in roller track (12).
(c)Install spindles (3) with washers (4).
(d)Install new cotter pins (2) in spindles (3) and safety.
(e)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(f)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the container latch.
(g)Remove circuit breaker safety clips and tags and close circuit breakers 1MY, 6MY, 501MY and 506MY.

E. Test

R **ON A/C 101-200,

(Ref. Fig. 403)

R **ON A/C 001-100,

(Ref. Fig. 404)

R **ON A/C ALL

Initial conditions:
- Correct electrical power supply (115VAC, 28VDC).
- Safety clips and tags removed and circuit breakers 1MY, 6MY, 501MY and 506MY closed.
- FWD or AFT cargo compartment door opened.

R **ON A/C 001-100,

NOTE : Container latch 47 between STA3355/FR62 and STA3408/FR63 is not equipped with a limit switch. Only test steps 3 and 5 are applicable.

R **ON A/C ALL

** For FWD Cargo Compartment

| ACTION | RESULT |
|---|---|
| 1. In door sill area<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On cargo loading system control panel<br>- Select POWER switch to ON. | Cargo conveyance/operation system is ready for operation. |
| 3. In ball mat area<br>- Raise container latch 47 11MY. | Latch locks in raised position. |
| 4. On cargo loading system control panel<br>- Select joystick to FWD.<br>- Release joystick. | In ball mat area.<br>- Power drive unit 29MY1 does not run. |
| 5. In ball mat area<br>- Lower raised container latch 47 11MY | Latch lowers below level of roller track. |
| 6. On cargo loading system control panel<br>- Select joystick to FWD. | On cargo compartment floor<br>- Power drive unit 29MY1 runs in |

| ACTION | RESULT |
|---|---|
| | FWD direction. |
| - Release joystick. | |
| 7. In ball mat area<br>- Raise container latch 47 27MY | Latch locks in raised position. |
| 8. On cargo loading system control panel<br>- Select joystick to IN<br>- Release joystick | In door sill area<br>- Power drive unit 28MY1 does not run. |
| 9. In ball mat area<br>- Lower container latch 47 27MY | - Latch lowers below level of roller track. |
| 10. On cargo loading system control panel<br>- Select joystick to IN<br>- Release joystick | - Power drive unit 28MY runs in IN direction. |
| 11. On cargo loading system control panel<br>- Select POWER switch to OFF | - Electrical power to cargo conveyance/operation system is stopped. |
| 12. In door sill area<br>- Raise manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light goes off. |

** For AFT Cargo Compartment

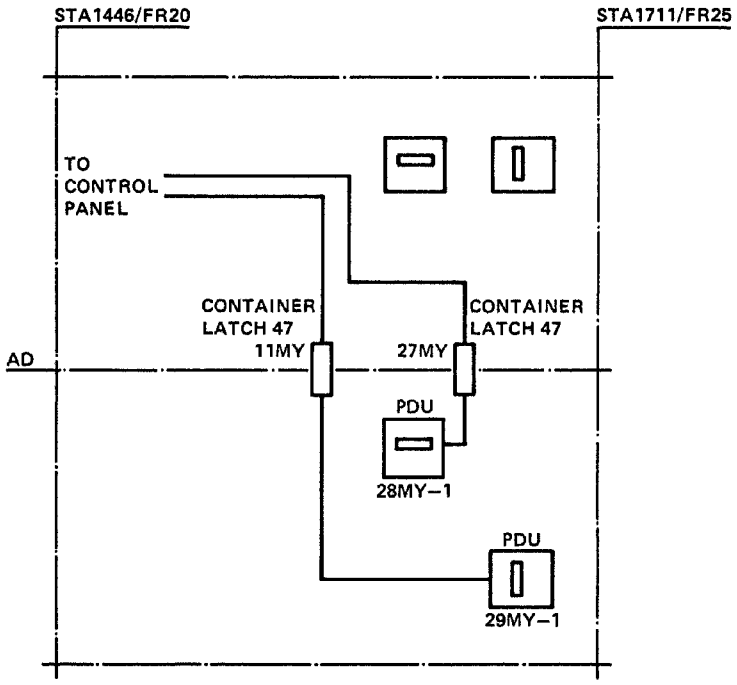
| ACTION | RESULT |
|---|---|
| 1. In door sill area<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On cargo loading system control panel<br>- Select POWER switch to ON. | Cargo conveyance/operation system is ready for operation. |
| 3. In ball mat area<br>- Raise container latch 47 511MY. | In ball mat area<br>- Latch locks in raised position. |
| 4. On cargo loading system control panel<br>- Select joystick to IN<br>- Release joystick | - Power drive unit 510MY1 does not run. |

| ACTION | RESULT |
|---|---|
| 5. In ball mat area<br>- Lower container latch 47 511MY | - Latch lowers below level of roller track. |
| 6. On cargo loading system control panel<br>- Select joystick to IN | - Power drive unit 510MY1 runs in IN direction. |
| - Release joystick | - Power drive unit 510MY1 stops. |
| - Select POWER switch to OFF | - Electrical power to cargo conveyance/operation system is stopped. |
| 7. In door sill area | On cargo loading system control panel |
| - Raise manually operated YZ-Latch of door sill latches. | - Control Panel light goes off. |

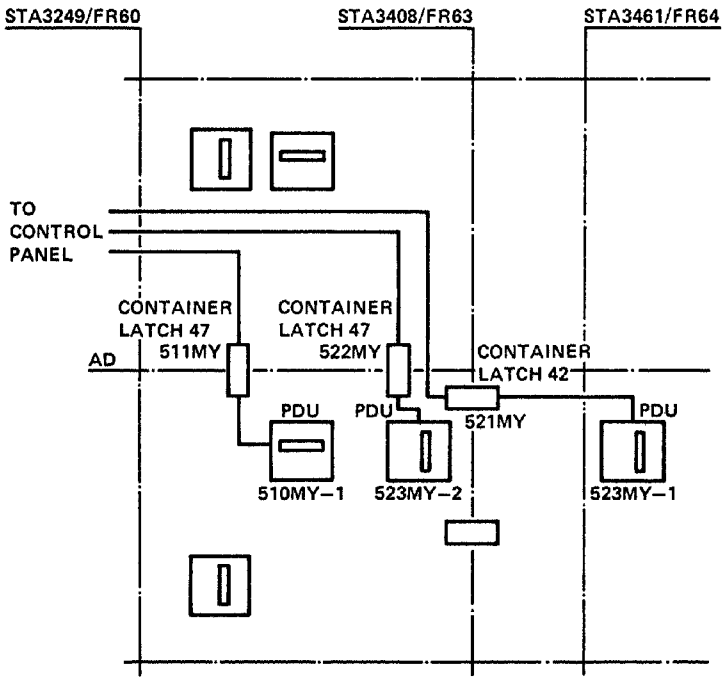
** For FWD and AFT Cargo Compartments

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)If necessary, install ball mats and/or ball strips (Ref. 25-52-22, P. Block 401).
(3)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-0, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

FWD CARGO COMPARTMENT




AFT CARGO COMPARTMENT

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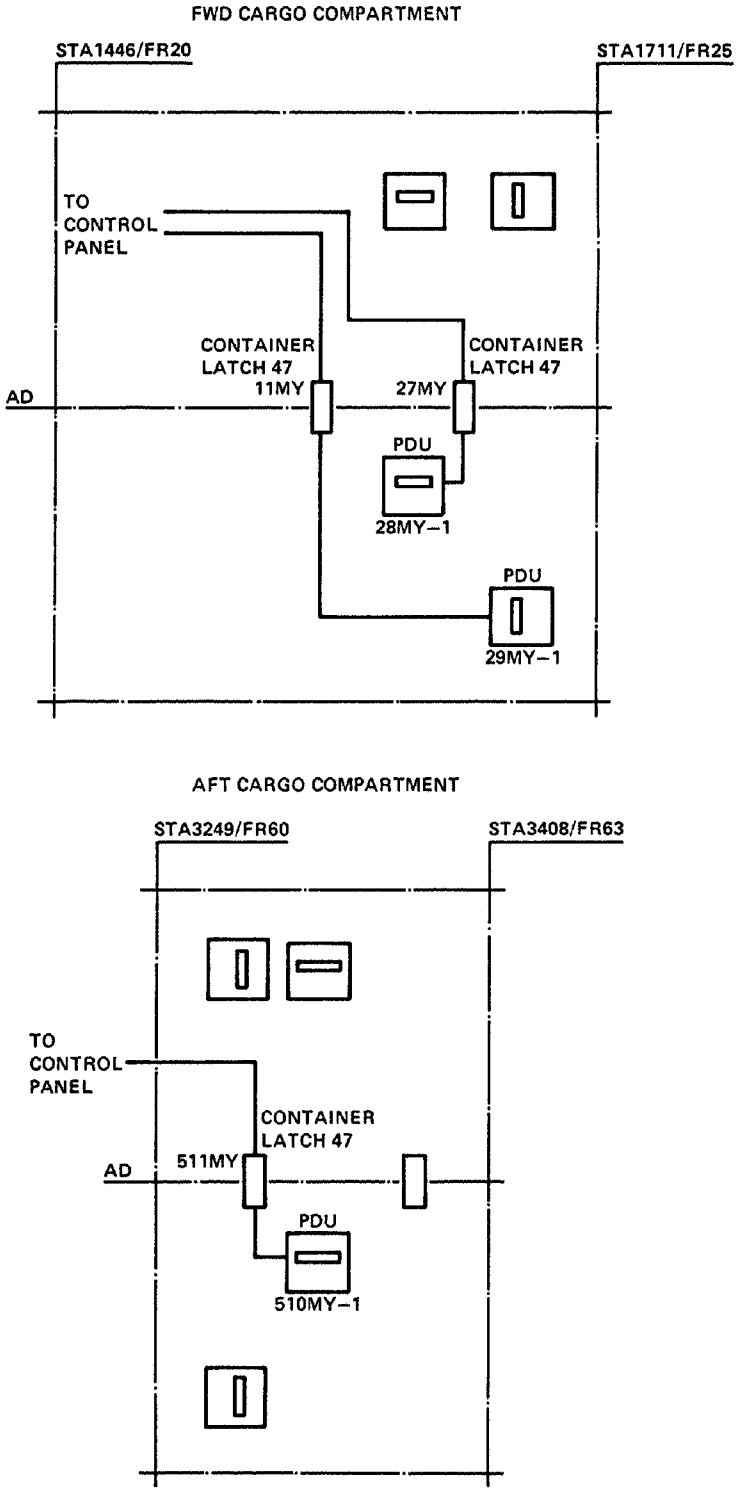
Limit Switch - Drive Unit Control
Figure 403




BM3 25 52 38 4 ACX0 00

Limit Switch - Drive Unit Control
Figure 404

## RETRACTABLE DOOR SILL GUIDE - REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Rigging Pin(s), 4 mm (0.157 in.) |
| D. | Circuit Breaker Safety Clips and Tags |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| H. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| I. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 25-52-41, P. Block 401 | Door Sill Latch |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

### 2. Procedure

A. Job Set-Up

(1)Position access platform.

(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(3)Make certain that electronics racks ventilation is correct.

(4)Open FWD cargo compartment door (Ref. 52-30-00, P. Block 1).

(5)Install door actuator safety lock to FWD cargo compartment door actuator (Ref. 52-30-00, P. Block 301).

(6)Display warning notice prohibiting operation of the cargo loading system on loading system control panel.

(7)Remove ball mats in area around retractable door sill guide (Ref. 25-52-22, P. Block 401).

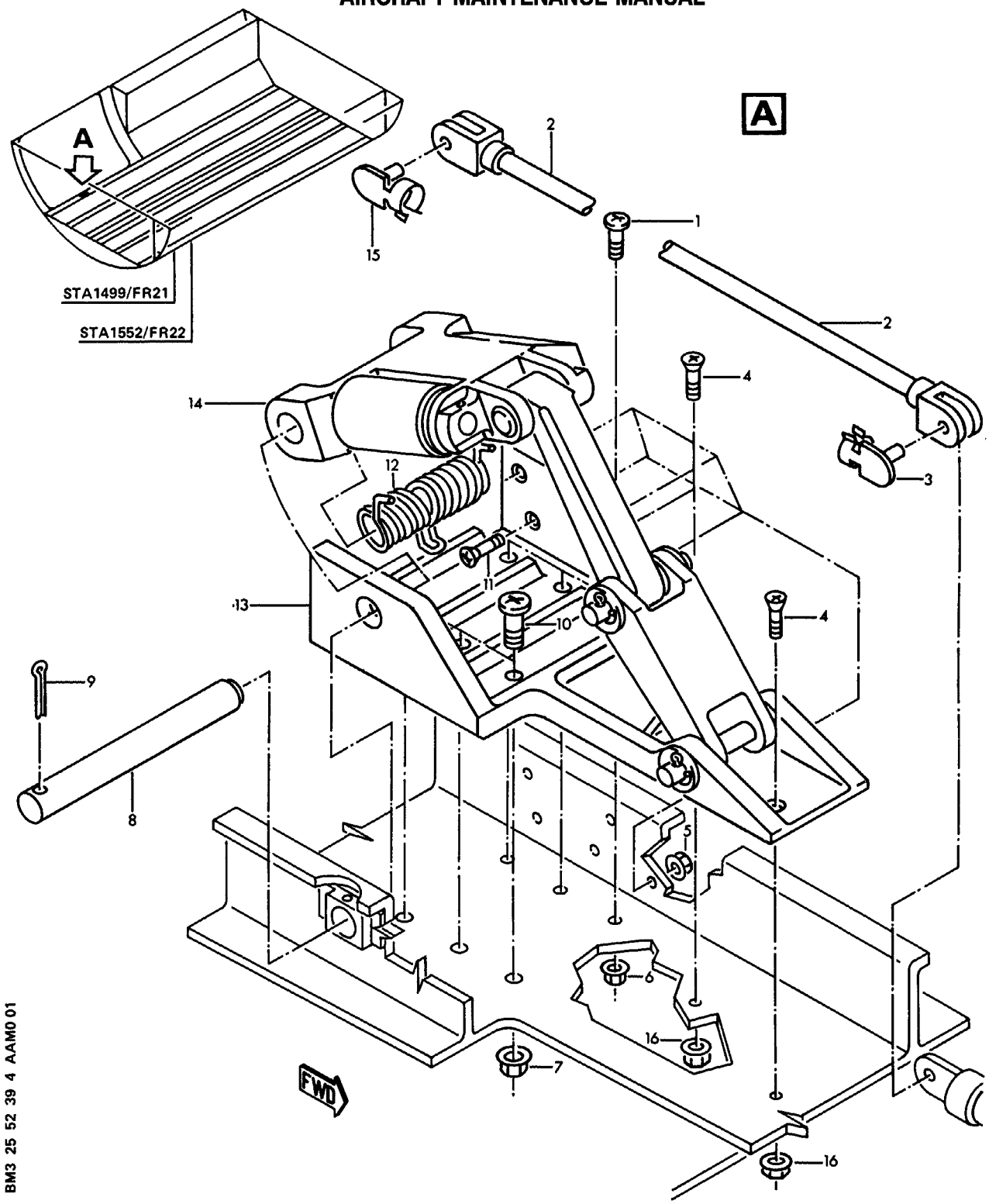
(8)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal

(Ref. Fig. 401)

(1)Remove protective cover of door sill latch at STA1552/FR22




Retractable Door Sill Guide
Figure 401

(Ref. 25-52-41, P. Block 401).
(2)Lower retractable door sill guide (14).
(3)Remove and discard cotter pin (9).
(4)Pull shaft (8) out of support assy (13) and retractable door sill guide (14).
(5)Lift retractable door sill guide (14).
CAUTION : TORSION SPRING IS PRELOADED.
(6)Remove torsion spring (12).
CAUTION : DO NOT TURN FORK END OF DRAWBAR WHEN DRAWBAR IS DISCONNECTED.
(7)Remove circlip (3) from drawbar (2).
(8)Lower overridable Y-latch of door sill latch at STA1605/FR23 and safety with rigging pin 4 mm dia. (0.16 in.).
(9)Remove circlip (15) from drawbar (2).
(10)Remove drawbar (2).
(11)Remove nuts (5) and screws (11).
(12)Remove nuts (6),(7),(16) and screws (1),(4),(10).
(13)Remove retractable door sill guide (14) with support assy (13) from door sill structure.

C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.
(1)Remove old sealant from support assy (13) and from door sill structure with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

D. Installation (Ref. Fig. 401)
(1)Apply a layer of sealant (Material No. 09-016) to the contact surface of support assy (13).
(2)Position support assy (13) with retractable door sill guide (14) on door sill structure.
(3)Apply anti-corrosion compound (Material No. 05-002) to the threads and shaft of screws (11).
(4)Install screws (11) and nuts (5). Do not tighten nuts (5) at this time.
(5)Apply anti-corrosion compound (Material No. 05-002) to the threads and shaft of screws (1),(10).
(6)Install screws (1),(4),(10) and nuts (6),(7),(16) and tighten.
(7)Tighten nuts (5).
(8)Position drawbar (2) and install circlips (3),(15).
(9)Position torsion spring (12) in retractable door sill guide (14).
(10)Align holes of retractable door sill guide (14) with holes of support assy (13).
(11)Insert shaft (8) in support assy (13).
(12)Put a new cotter pin (9) in shaft (8) and safety.
(13)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(14)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of support assy (13).
(15)Remove rigging pin from door sill latch at STA1605/FR23.

E. Test
Initial conditions:
- FWD cargo compartment door opened and door actuator safety lock installed.

| ACTION | RESULT |
|---|---|
| 1. Pull retractable door sill guide to raised position. | Retractable door sill guide is locked in raised position. |
| 2. Unlatch and lower retractable door sill guide. | Retractable door sill guide is positioned below level of door sill latch rollers. |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ball mats (Ref. 25-52-22, P. Block 401).
(3)Install protective cover of door sill latch at STA1552/FR22 (Ref. 25-52-41, P. Block 401).
(4)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 7GX and 23GX.
(5)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(6)Close FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(7)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(8)Remove warning notice.
(9)Remove access platform.

## DOOR SILL LATCH - REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Rigging Pins Dia. 4 mm (0.157 in.) |
| D. | Circuit Breaker Safety Clips and Tags |
| E. | Cotter Pin |
| F. | Wooden or Plastic Scraper |
| G. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| I. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| J. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| K. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| R - 52-35-13, P. Block 401 | Door Control Switches |

### 2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Remove ball mats/ball strips as required (Ref. 25-52-22, P. Block 401).
(8)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |

** For FWD and AFT Cargo Compartments

B. Removal

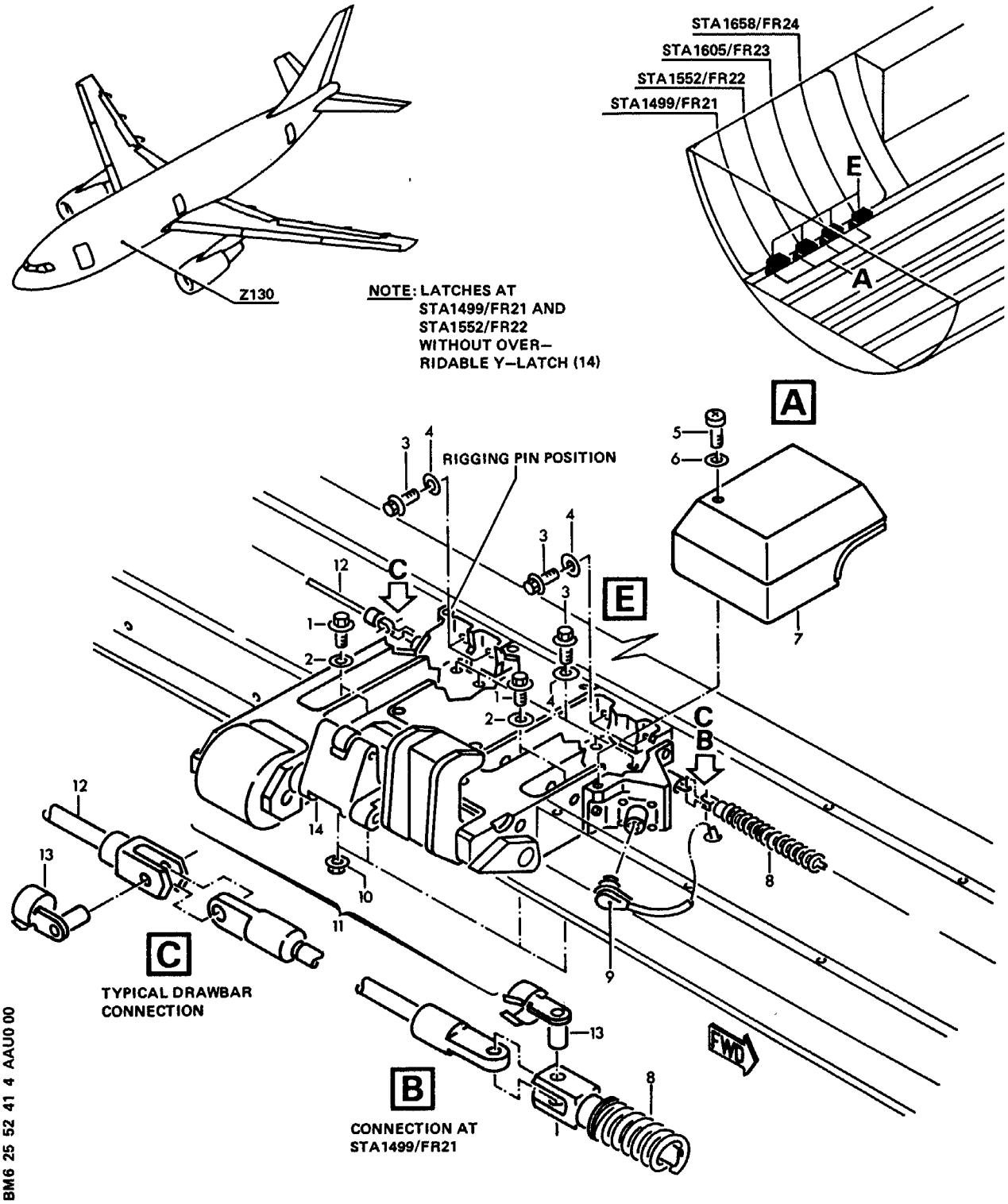
(Ref. Fig. 401)

(Ref. Fig. 402)

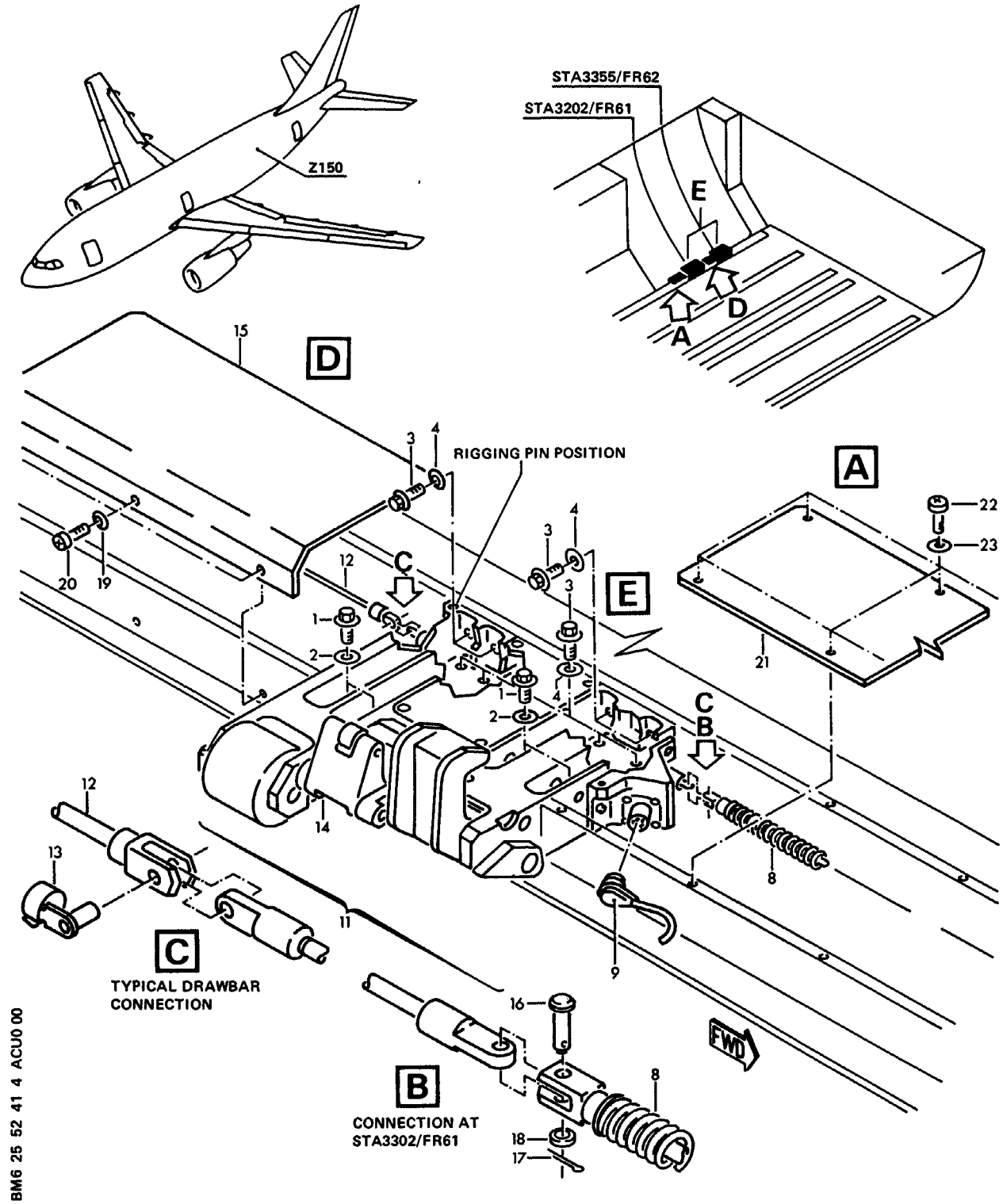
** For FWD Cargo Compartment (Ref. Fig. 401)

NOTE : Record screw length and position. Length and position differs from latch to latch.

(1)Remove screw (5), washer (6) and protective cover (7).
(2)Disconnect electrical connector (9) and fit blanking cap.
(3)Remove circlip (13) from drawbar (12).
(4)Support drawbar (12).
(5)Push down overridable Y-latch (14).
(6)Pull FWD drawbar (8) in FWD direction.
(7)Remove circlip (13) from drawbar (8).
(8)Support drawbar (8).
(9)Remove bolts (1), washers (2) and nuts (10).
(10)Remove bolts (3) and washers (4).
(11)Remove latch (11) from door sill structure.




Door Sill Latch - FWD Cargo Compartment
Figure 401




Door Sill Latch - AFT Cargo Compartment
Figure 402

** For AFT Cargo Compartment (Ref. Fig. 402)

NOTE : Record screw length and position. Length and position differs from latch to latch.

(12)Remove screws (22) and/or (20), washers (23) and/or (19) and covers (21) and/or (15) as required.
(13)Disconnect electrical connector (9) and fit blanking cap.
(14)Remove circlip (13) from drawbar (12).
(15)Support drawbar (12).
(16)Push down overridable Y-latch (14).
(17)Pull FWD drawbar (8) in FWD direction.
(18)Remove cotter pin (17), washer (18) and clevis pin (16) from drawbar (8).
(19)Discard cotter pin (17).
(20)Support drawbar (8).
(21)Remove bolts (1),(3) and washers (2),(4).
(22)Remove latch (11) from door sill structure.

** For FWD and AFT Cargo Compartments

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove the old sealant from the door sill latch and from the door sill structure with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

R NOTE : You must do the following procedure when you install a replacement door sill latch:
R - visually check the micro-switch in the door sill latch to make sure that the micro-switch is installed correctly,
R - make sure that the roller of the micro-switch is in the vertical position,
R - if the roller of the micro-switch is not in the vertical position, you must adjust it in accordance with (Ref. 52-35-13, P. Block 401).

(2)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.

D. Installation

** For FWD Cargo Compartment (Ref. Fig. 401)

(1)Apply a layer of sealant (Material No. 09-016) to contact surface of door sill latch (11).
(2)Position latch (11) in door sill structure.
(3)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (1),(3).
(4)Install screws (1),(3), washers (2),(4) and nuts (10).
(5)Insert rigging pin into rigging hole of newly installed latch.
(6)Make certain that holes of drawbars for circlip are in alignment.
(7)When necessary, adjust length of drawbar (8) by turning fork end.
(8)Remove rigging pin from door sill latch.
(9)Push down overridable Y-latch (14).
(10)Connect drawbar (8) to latch (11).
(11)Install circlip (13).
(12)Raise overridable Y-latch (14).
(13)Insert rigging pins into rigging holes of newly installed latch and adjacent latches.
(14)Connect drawbar (12) to latch (11) and secure with circlip (13). If required, adjust length of drawbar by turning fork end.
(15)Remove rigging pins from door sill latches.
(16)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(17)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the door sill latch.
(18)Remove blanking caps and connect electrical connector (9) to latch (11).
(19)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 7GX and 23GX.
(20)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).

** For AFT Cargo Compartment (Ref. Fig. 402)

(21)Apply a layer of sealant (Material No. 09-016) to contact surface of door sill latch (11).
(22)Position latch (11) in door sill structure.
(23)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (1),(3).
(24)Install screws (1),(3) and washers (2),(4).
(25)Push down overridable Y-latch (14).
(26)Connect drawbar (8) to latch (11).
(27)Insert clevis pin (16) with washer (18) and safety with new cotter pin (17).

(28)Raise overridable Y-latch (14).
(29)Insert rigging pins into rigging holes of newly installed latch and adjacent latches.
(30)Connect drawbar (12) to latch (11) and secure with circlip (13). If required, adjust length of drawbar by turning fork end.
(31)Remove rigging pins from door sill latches.
(32)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(33)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the door sill latch.
(34)Remove blanking caps and connect electrical connector (9) to latch (11).
(35)Remove safety clips and tags and close circuit breakers 501MY, 506MY, 7GX, and 23GX.
(36)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(37)Remove warning notice from cargo loading system control panel.

** For FWD and AFT Cargo Compartments

E. Test

Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).
- Service ventilation system in operation.
- Safety clips and tags removed and circuit breakers 1MY, 6MY, 7GX, 23GX, 501MY and 506MY closed.
- FWD and/or AFT cargo compartment door(s) opened.
- Door actuator safety lock(s) removed (Ref. 52-30-00, P. Block 301).
- Rigging pins removed from door sill latches.

| ACTION | RESULT |
|---|---|
| 1. On cargo loading system control panel<br>- Pull down and hold SILL LOCK handle.<br>- Release SILL LOCK handle. | In door sill area<br>- Overridable Y-latch of door sill latches must be fully lowered.<br>- Overridable Y-latches of door sill latches must be fully raised within approximately 8 sec. |
| 2. At door sill latch<br>- Depress lowering lever. | Manually-operated YZ-latch of door sill latch lowers. |
| CAUTION : IF DOOR STARTS TO CLOSE, IMMEDIATELY STOP OPERATION AND RECTIFY BEFORE PROCEEDING WITH TEST. | |
| 3. Operate door selector to close cargo compartment door. | Door must not close. |
| 4. Raise lowered latch and operate door selector to close cargo compartment door. | Door must start to close. |

| ACTION | RESULT |
|---|---|
| 5. Operate door selector to open cargo compartment door. | Door opens and locks in opened position. |
| 6. Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301). | |

F. Close-Up

(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Apply anti-corrosion compound (Material No. 05-002) to threads of screws.
(3)Install cover (21),(15) and/or (7) with screws (22),(20) and/or (5) and washers (19),(23) and/or (6) in FWD and/or AFT door sill area as required.
(4)Apply corrosion preventive lubricant (Material No. 05-027) to the heads of screws.
(5)Apply corrosion preventive (Material No. 05-005) to the material applied to the head of screws.
(6)Make certain that all manual YZ-latches of door sill latches are raised.
(7)Install ball mats/ball strips as required (Ref. 25-52-22, P. Block 401).
(8)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(9)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(10)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(11)Remove warning notice.
(12)Remove access platform.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Wooden or Plastic Scraper |
| E. | Cotter Pins |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| I. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| J. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

R **ON A/C 001-100, 105-200,

(Ref. Fig. 401)

R **ON A/C 101-104,

(Ref. Fig. 402)

**ON A/C 001-100,

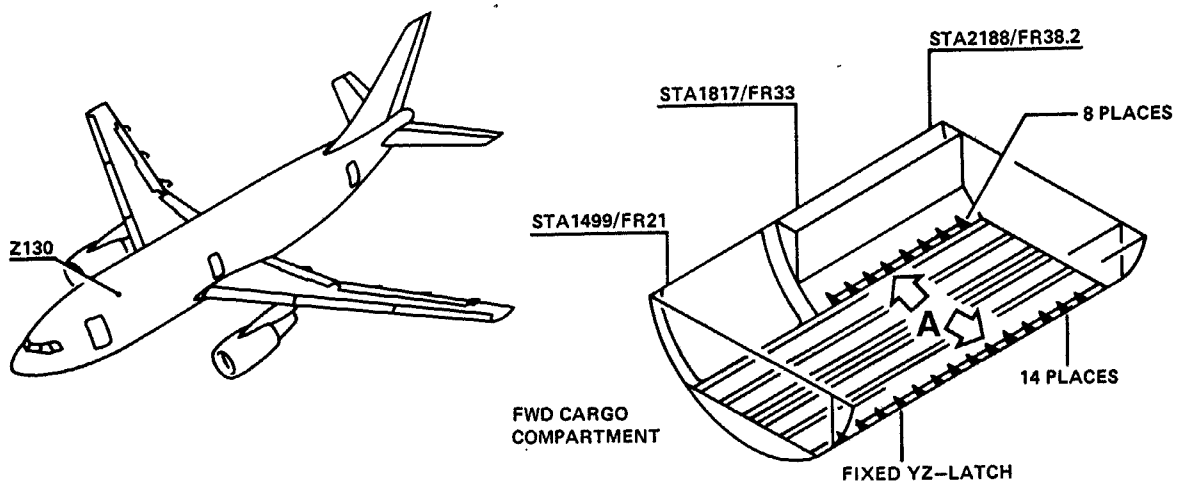
(Ref. Fig. 403)

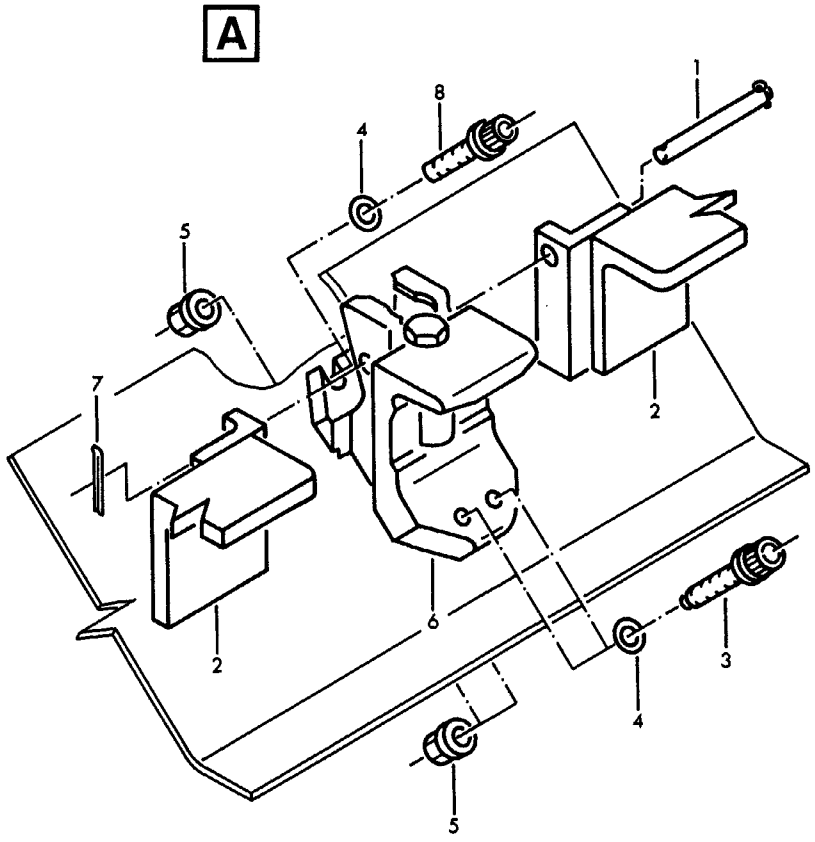
**ON A/C 101-200,

(Ref. Fig. 404)

**ON A/C ALL

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00,

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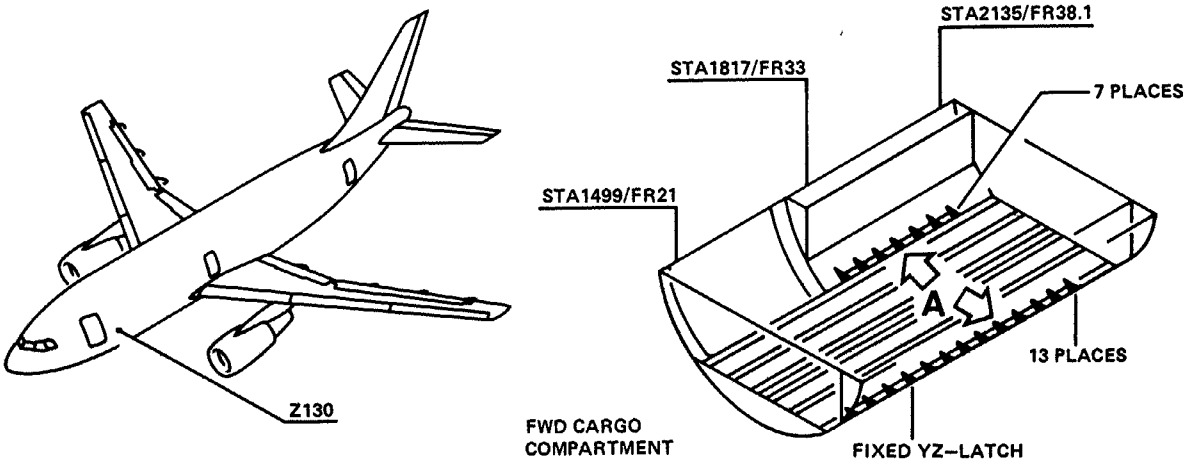
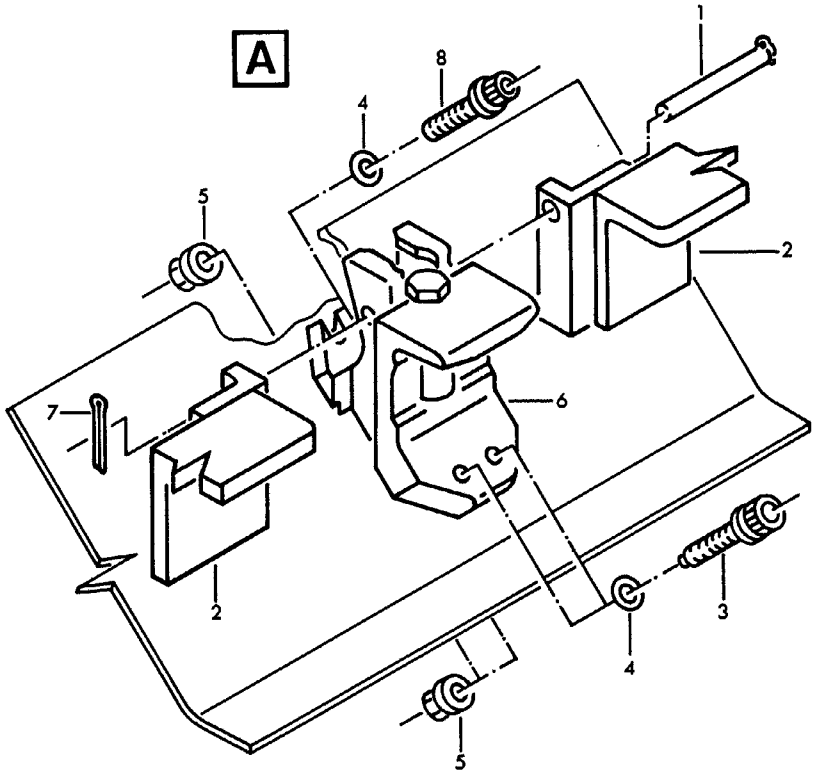
Fixed YZ-Latch and Continuous Side Guide -
FWD Cargo Compartment
Figure 401

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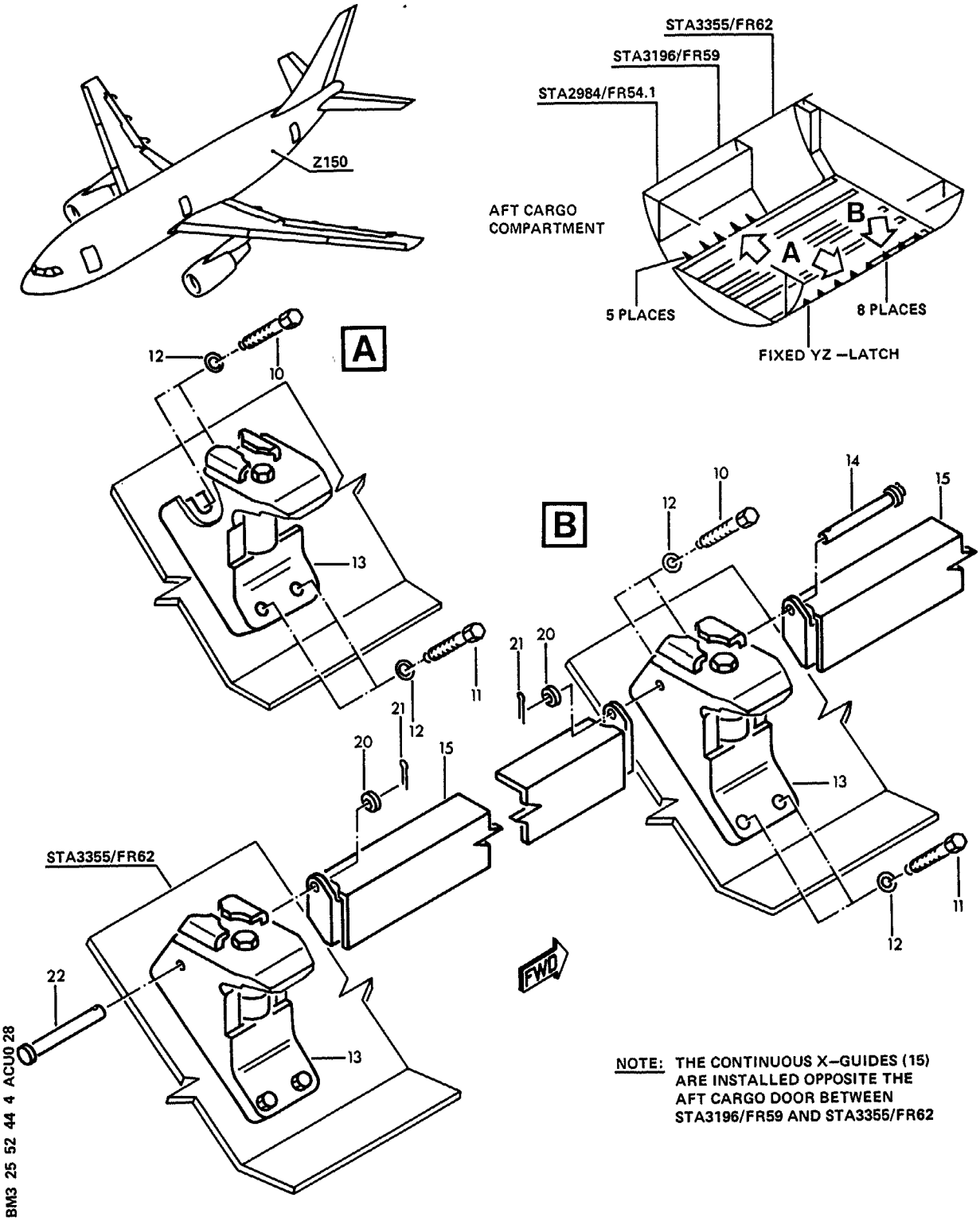
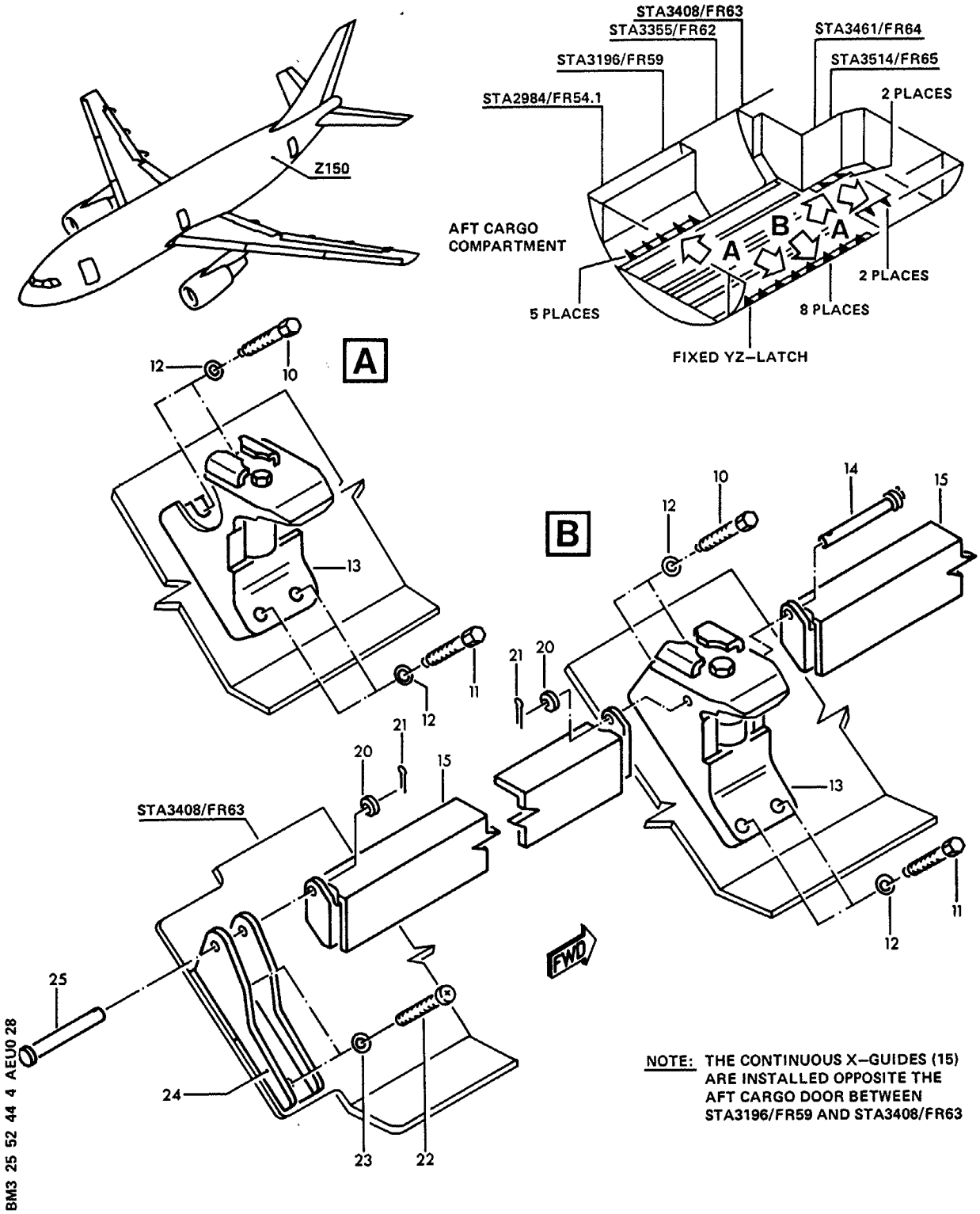
Fixed YZ-Latch and Continuous Side Guide -
FWD Cargo Compartment
Figure 402

R EFFECTIVITY: 101-104,

PIA




Fixed YZ-Latch and Continuous X-Guide -
AFT Cargo Compartment
Figure 403




Fixed YZ-Latch and Continuous X-Guide -
AFT Cargo Compartment
Figure 404

P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)If fixed YZ-latch has to be replaced in FWD cargo compartment, unlock quick-release fasteners and remove lower sidewall panel in work area.
(8)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal
NOTE : Screws are of different lengths. Record positions to facilitate installation.

** For FWD Cargo Compartment

(1)Fixed YZ-Latch and Continuous Side Guide
(a)Remove and discard cotter pin (7).
(b)Pull connecting pin (1) out of continuous side guide (2).
(c)Remove continuous side guide (2).
(d)Remove nuts (5), screws (8),(3) and washers (4).
(e)Remove fixed YZ-latch (6) from structure.

R **ON A/C 001-100,

** For AFT Cargo Compartment

(1)Fixed YZ-Latch and Continuous X-Guide
(a)Remove and discard cotter pins (21).

(b)Remove washers (20).
NOTE : Connecting pin (22) at STA3355/FR62 only.
(c)Pull connecting pins (14),(22) out of continuous X-guides (15).
(d)Remove continuous X-guide (15).
(e)Remove screws (10),(11) and washers (12).
(f)Remove fixed YZ-latch (13) from structure.

R **ON A/C 101-200,

** For AFT Cargo Compartment

(1)Fixed YZ-Latch and Continuous X-Guide
(a)Remove and discard cotter pins (21).
(b)Remove washers (20).
(c)Pull connecting pins (14),(25) out of continuous X-guide (15).
(d)Remove continuous X-guide (15).
(e)Remove screws (10),(11) and washers (12).
(f)Remove fixed YZ-latch (13) from structure.
NOTE : Support bracket (24) at STA3408/FR63 only.
(g)Remove screws (22) and washers (23).
(h)Remove support bracket (24) from structure.

R **ON A/C ALL

C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.
(1)Remove the old sealant from the components and from the structure with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

D. Installation

** For FWD Cargo Compartment

(1)Fixed YZ-Latch and Continuous Side Guide
(a)Apply a layer of sealant (Material No. 09-016) to contact surface of fixed YZ-latch (6).
(b)Position fixed YZ-latch (6) on structure.
(c)Apply anti-corrosion compound (Material No. 05-002) to the threads of screws (8),(3).
(d)Install screws (8),(3), washers (4) and nuts (5).
(e)Position continuous side guide (2) between fixed YZ-latches (6).
(f)Insert connecting pins (1).
(g)Install new cotter pin (7) and safety.
(h)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.

(i)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the fixed YZ-latches.

R **ON A/C 001-100,

** For AFT Cargo Compartment

(1)Fixed YZ-Latch and Continuous X-Guide
(a)Apply a layer of sealant (Material No. 09-016 to contact surface of fixed YZ-latch (13).
(b)Position fixed YZ-latch (13) on structure.
(c)Apply anti-corrosion compound (Material No. 05-002) to the threads of screws (10) and (11).
(d)Install screws (10),(11) and washers (12).
(e)Position continuous X-guide (15) between fixed YZ-latches.
NOTE : Connecting pin (22) at STA3355/FR62 only.
(f)Insert connecting pins (14) and (22).
(g)Install new cotter pins (21) and safety.
(h)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(i)Apply corrosion preventive (Material No. 05-005) to the materials applied to the attachment elements and to the edges of the fixed YZ-latch.

R **ON A/C 101-200,

** For AFT Cargo Compartment

(1)Fixed YZ-Latch and Continuous X-Guide
(a)Apply a layer of sealant (Material No. 09-016) to contact surface a fixed YZ-latch (13).
(b)Position fixed YZ-latch (13) on structure.
(c)Apply anti-corrosion compound (Material No. 05-002) to the threads of screws (10) and (11).
(d)Install screws (10),(11) and washers (12).
NOTE : Support bracket (24) is installed at STA3408/FR63 only.
(e)Apply a layer of sealant (Material No. 09-016) to contact surface of support bracket (24).
(f)Position support bracket (24) on structure.
(g)Apply anti-corrosion compound (Material No. 05-002) to the threads of screws (22).
(h)Install screws (22) and washers (23).
(i)Position continuous X-guide (15) between fixed YZ-latches and/or support bracket.
(j)Insert connecting pins (14),(25) and washers (20).
(k)Install new cotter pins (21) and safety.
(l)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.

(m)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the fixed YZ-latches and support bracket.

R **ON A/C ALL

** For FWD and AFT Cargo Compartments

E. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)If fixed YZ-latch was replaced in FWD cargo compartment, install lower sidewall panel and lock quick release fasteners.
(3)Remove circuit breaker safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

## FIXED Y-GUIDE - REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Cotter Pin |
| D. | Circuit Breaker Safety Clips and Tags |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| H. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| I. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 53-10-33, P. Block 401 | AFT Cargo Compartment Floor Panels |

### 2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on loading system control panel.
(7)In FWD cargo compartment remove ball mats as required in area of brackets (Ref. 25-52-22, P. Block 401).
(8)In AFT cargo compartment remove floor panels in work area (Ref. 53-10-33, P. Block 401).
(9)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal

** For FWD Cargo Compartment

(Ref. Fig. 401)
(1)Y-Guide
(a)Remove cotter pin (16), pin (18), washer (10) with remaining cotter pin (16). Discard cotter pin (16).
(b)Tighten bolt (15) to release Y-guide (19), slide Y-guide (19) along track and lift and remove.
(2)Guide Tracks
(a)Remove cotter pins (8), attachment pin (2) and washers (7). Discard cotter pins (8).
(b)Remove guide tracks (1) from support brackets (9).
(3)Brackets
(a)Remove cotter pins (4), nuts (5), bolts (6) and washers (3). Discard cotter pins (4).
(b)Lift support bracket (9) and remove from roller track.

** For AFT Cargo Compartment

R **ON A/C 001-100,

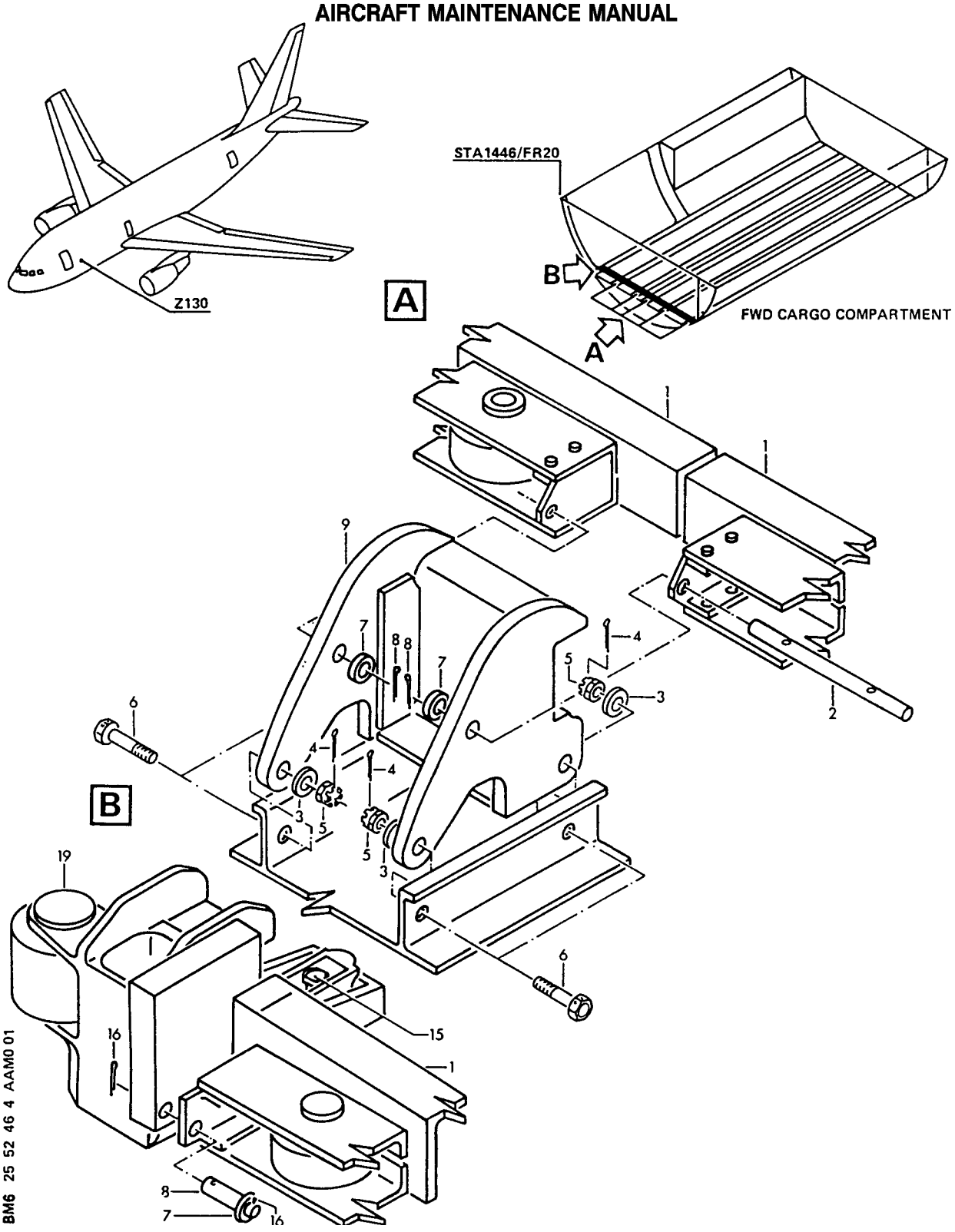
(Ref. Fig. 402)

R **ON A/C 101-200,

(Ref. Fig. 403)
(Ref. Fig. 404)

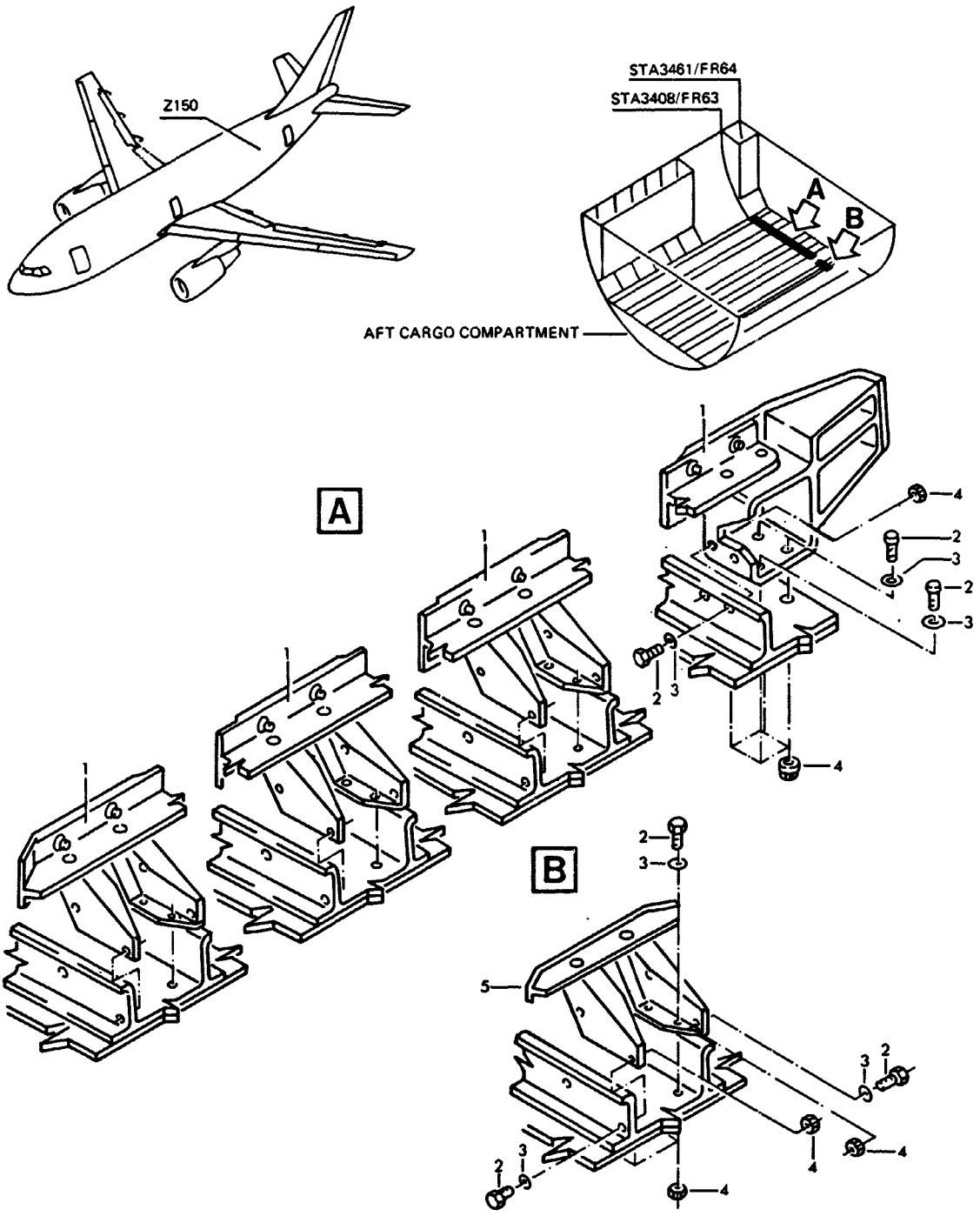
R **ON A/C 001-100,

(1)Remove nuts (4), screws (2) and washers (3).

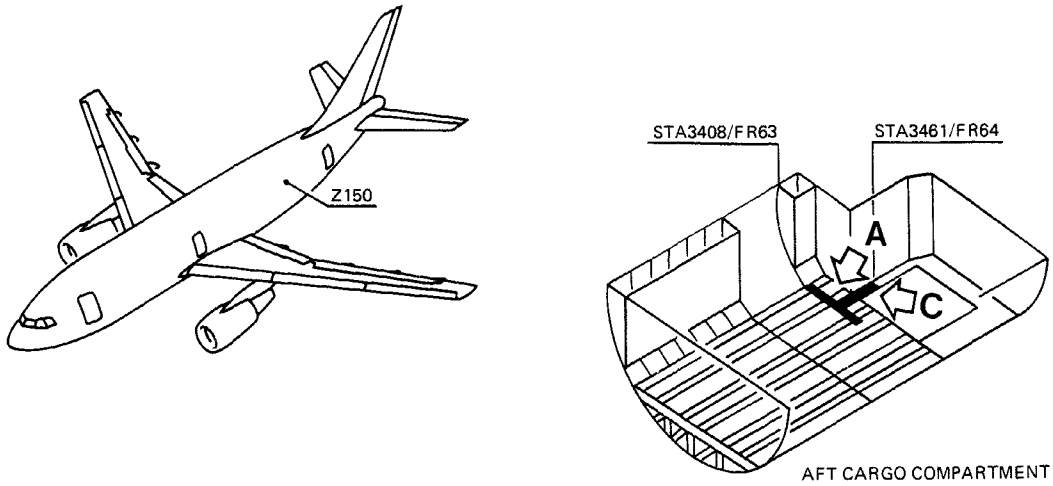


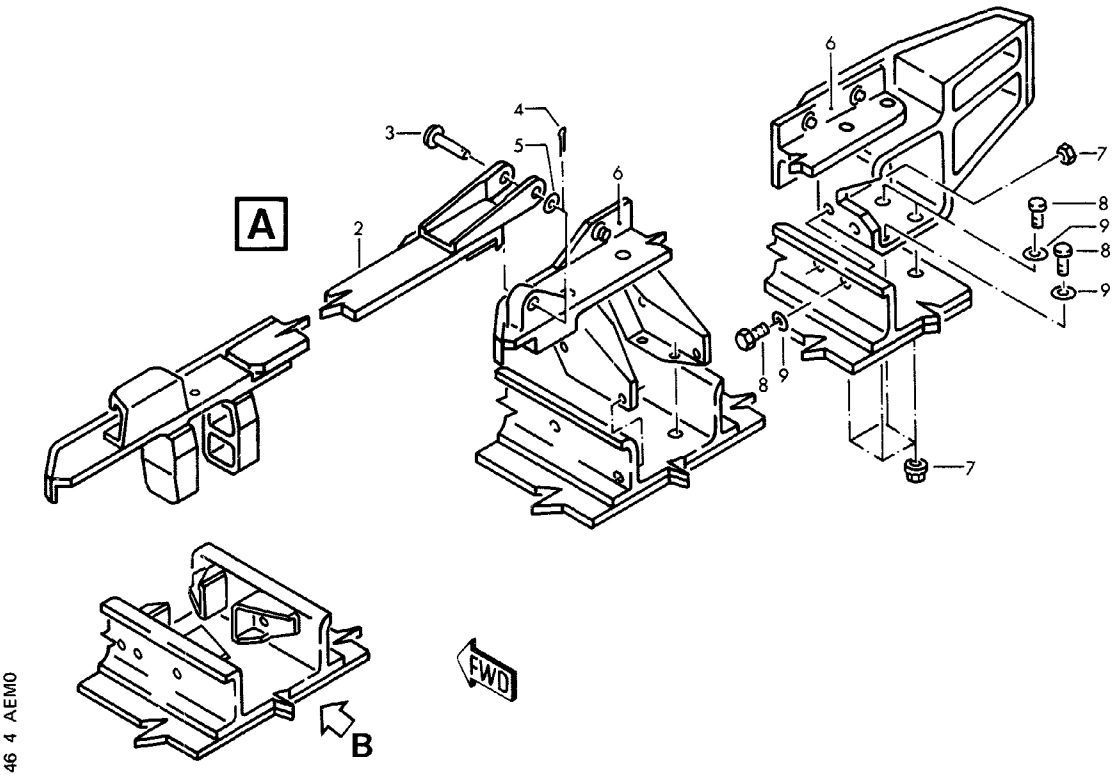

Fixed Y-Guide - FWD Cargo Compartment
Figure 401

R



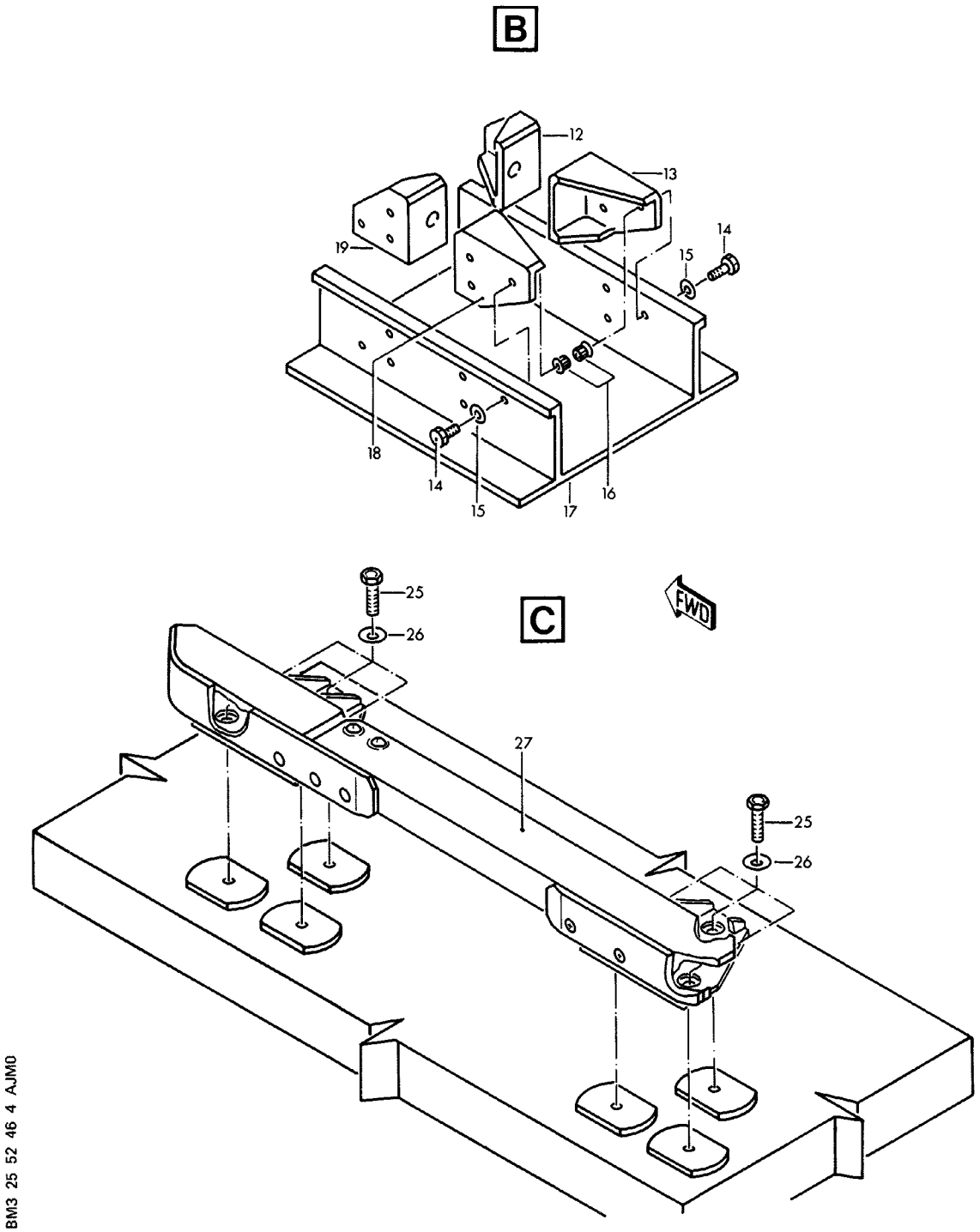

Fixed Y-Guide - AFT Cargo Compartment
Figure 402




BM3 25 52 46 4 AEM0

Fixed Y-Guide - AFT Cargo Compartment
Figure 403




Fixed Y-Guide - AFT Cargo Compartment
Figure 404

(2)Remove Y-guide sections (1),(5).

R **ON A/C 101-200,

(1)Remove and discard cotter pin (4), remove washer (5) and pivot pin (3).
(2)Remove hinged part (2) of Y-guide.
(3)Remove nuts (7) screws (8) and washers (9) and remove fixed Y-guide section (6) of Y-guide.
(4)Remove nuts (16), screws (14) and washers (15) and remove brackets (12),(13),(18),(19).
(5)Remove screws (25) and washers (26) and remove side guide (27).

R **ON A/C ALL

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

** For FWD Cargo Compartment

(1)Remove the old sealant from the support bracket (6) and the roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

R **ON A/C 001-100,

** For AFT Cargo Compartment

(2)Remove the old sealant from the Y-guide sections (1),(5) and the roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

R **ON A/C 101-200,

** For AFT Cargo Compartment

(2)Remove the old sealant from the fixed Y-guide section (6) and the brackets (12),(13),(18),(19) and roller tracks, with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

R **ON A/C ALL

D. Installation

** For FWD Cargo Compartment (Ref. Fig. 401)

(1)Support Brackets
(a)Apply a layer of sealant (Material No. 09-016) to contact surface of support bracket (9).
(b)Position support bracket (9) in roller track.
(c)Apply anti-corrosion compound (Material No. 05-002) to threads of bolts (6).
(d)Install bolts (6), washers (3), nuts (5) and safety with new cotter pins (4).
(e)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(f)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the support brackets.
(g)Install ball mats in area of support brackets (Ref. 25-52-22, P. Block 401).
(2)Guide Tracks
(a)Position guide tracks (1) in support brackets (9).
(b)Install attachment pin (2) and washers (7) and safety with new cotter pins (8).
(c)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(d)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements.
(3)Y-guide
(a)Insert pins of Y-guide (19) into track, slide Y-guide (19) along track until end locates in guide track.
(b)Turn bolt (13) anti-clockwise to lock Y-guide in guide track.
(c)Install pin (18) and washer (10) and safety with new cotter pins (9).
(d)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(e)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements.

** For AFT Cargo Compartment

R **ON A/C 001-100,

(Ref. Fig. 402)

R **ON A/C 101-200,

(Ref. Fig. 403, 404)

R **ON A/C 001-100,

(1)Apply a layer of sealant (Material No. 09-016) to contact surface of Y-guide sections (1),(5).
(2)Position Y-guide sections (1),(5).
(3)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (2).

(4)Install screws (2) washers (3) and nuts (4).
(5)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(6)Apply corrosion preventive (Material Nol 05-005) to the material applied to the attachment elements and to the edges of the Y-guide sections.
(7)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(8)Install floor panels where removed (Ref. 53-10-33, P. Block 401).

R **ON A/C 101-200,

(1)Apply a layer of sealant (Material No. 09-016) to contact surface of fixed Y-guide section (6).
(2)Position fixed Y-guide section (6).
(3)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (8).
(4)Install screws (8), washers (9) and nuts (7).
(5)Apply a layer of sealant (Material No. 09-016) to contact surface of brackets (12),(13),(18),(19).
(6)Position brackets (12),(13),(18),(19) to track (17).
(7)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (14).
(8)Install screws (14), washers (15) and nuts (16).
(9)Position hinged part (2) to fixed Y-guide section (6).
(10)Install pivot pin (3) and washer (5) and secure with new cotter pin (4).
(11)Lower hinged part (2) of Y-guide.
(12)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(13)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the fixed Y-guide sections and brackets.
(14)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(15)Install floor panels where removed (Ref. 53-10-33, P. Block 401).
(16)Position side guide (27) to floor panels.
(17)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (25).
(18)Install screws (25) with washers (26).
(19)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(20)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements.

R **ON A/C ALL

E. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove circuit breaker safety clips and tags and close circuit

breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(3)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(4)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 301).
(5)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove warning notice.
(7)Remove access platform.

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Cotter Pin |
| E. | Wooden or Plastic Scraper |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| I. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| J. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

## 2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)In AFT cargo compartment remove ball mats in area of XY-guide (Ref. 25-52-22, P. Block 401).
(8)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal
(Ref. Fig. 401)
(Ref. Fig. 402)

** For FWD Cargo Compartment

NOTE : Length of bolts and screws vary; record position for subsequent installation.
(1)Remove cotter pin (7) and pin (4) to disconnect continuous side guide (5) from XY-guide (6). Discard cotter pin (7).
(2)Remove bolts (3), washers (2), nuts (1) and XY-guide (6).

** For AFT Cargo Compartment

(1)XY-Guide
(a)Remove bolts (12), washers (13), nuts (14) and XY-guide (11).
(2)Door Sill Roller
(a)Remove bolts (15), washers (16), nuts (17) and door sill roller (18).

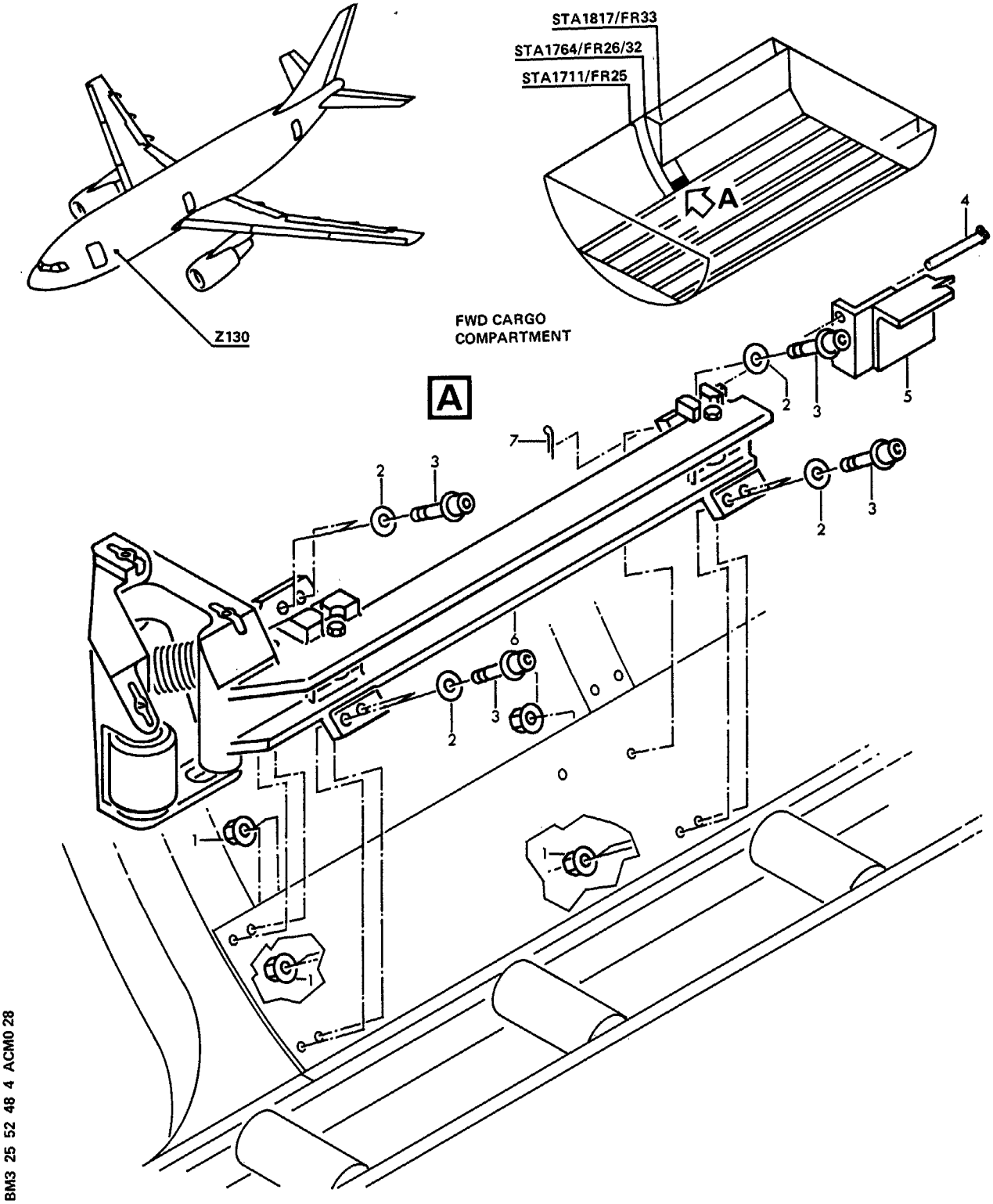
** For FWD and AFT Cargo Compartments

C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.
(1)Remove the old sealant from the contact surface of XY-guide and/or door sill roller and from the structure with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(2)Apply a thin coat of sealants (Material No. 09-016) to contact surfaces of XY-guide and/or door sill roller.
(3)Clean and check the work area before installation of the new component.

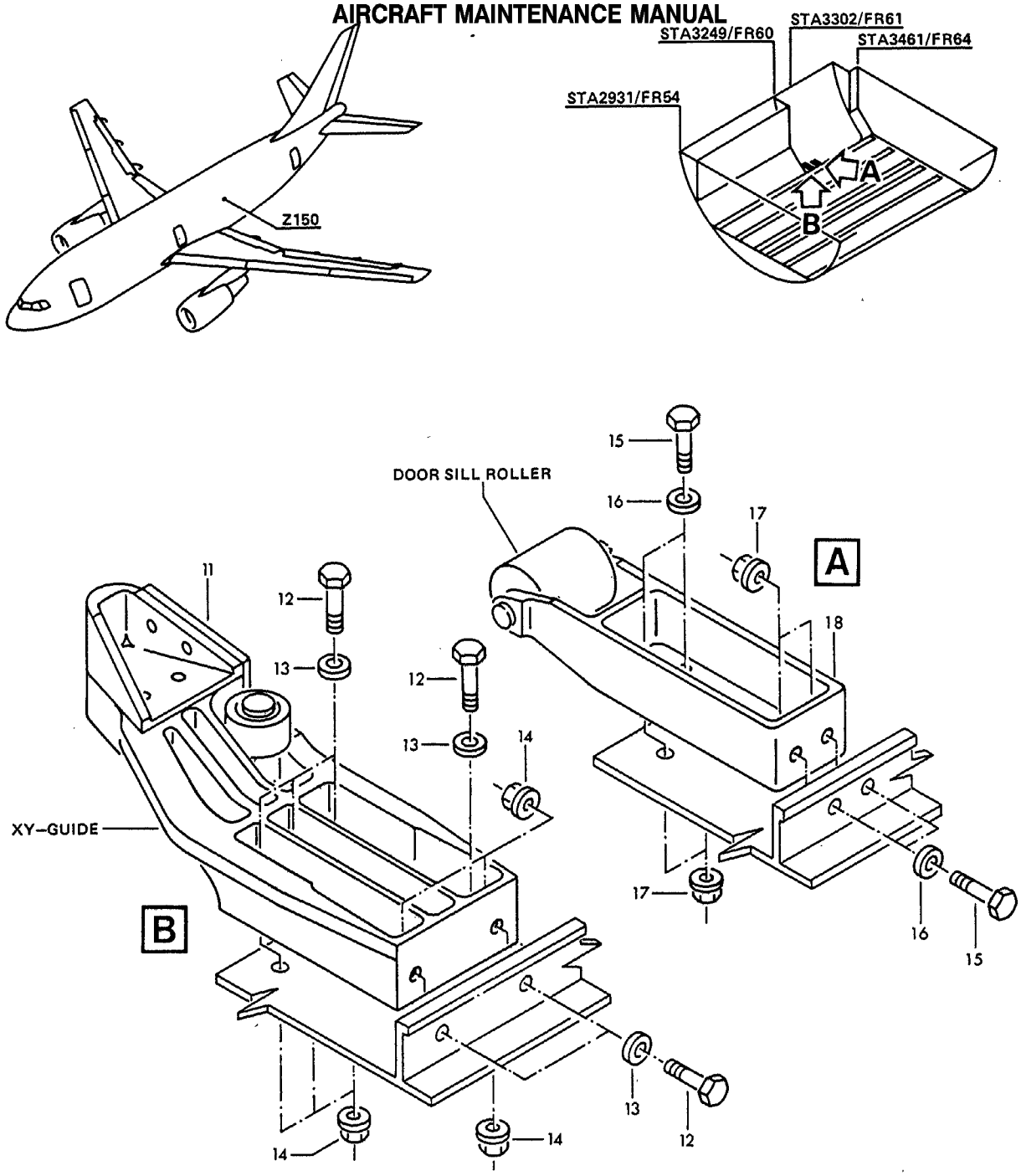
D. Installation

** For FWD Cargo Compartment

(Ref. Fig. 401)
(1)Apply anti-corrosion compound (Material No. 05-002) to the threads




XY-Guide - FWD Cargo Compartment
Figure 401




XY-Guide and Door Sill Roller
AFT Cargo Compartment
Figure 402

and shafts of bolts (3).
(2)Position XY-guide (6) and install bolts (3) with washers (2) and nuts (1).
(3)Align continuous side guide (5) with XY-guide (6), install pin (4) and safety with new cotter pin (7).
(4)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(5)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of XY-guide.

** For AFT Cargo Compartment

(Ref. Fig. 402)
(1)XY-Guide
(a)Apply anti-corrosion compound (Material No. 05-002) to the threads and shafts of bolts (12).
(b)Position XY-guide (11) and install bolts (12), washers (13) and nuts (14).
(c)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(d)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the XY-guide (11).
(2)Door Sill Roller
(a)Apply anti-corrosion compound (Material No. 05-002) to the threads and shafts of bolts (15).
(b)Position door sill roller (18) and install bolts (15), washers (16) and nuts (17).
(c)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(d)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the door sill roller (19).

** For FWD and AFT Cargo Compartments

E. Test
(1)Make certain that rollers rotate freely.

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)In AFT cargo compartment install ball mats (Ref. 25-52-22, P. Block 401).
(3)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-30-00, P. Block 301).

(7)Remove warning notice.
(8)Remove access platform.

## RETRACTABLE Y-GUIDE - REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |
| D. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| E. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| G. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

### 2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on loading system control panel.
(7)Remove ball strips in area around retractable Y-guide (Ref. 25-52-22, P. Block 401).
(8)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal

** For FWD and AFT Cargo Compartments

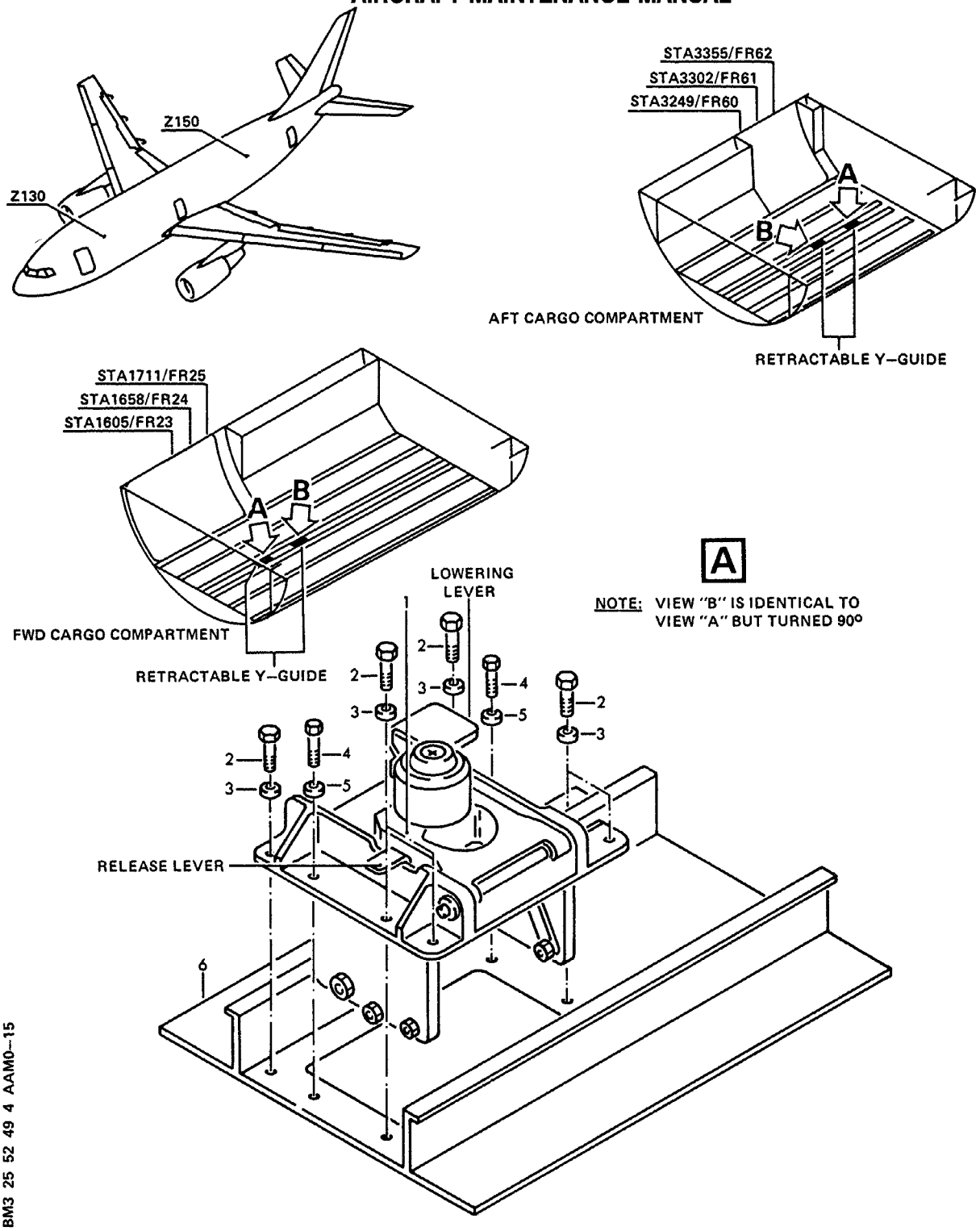
(Ref. Fig. 401)
(1)Remove screws (2),(4), washers (3),(5) and retractable Y-guide (1).

C. Preparation for Installation
WARNING : METHYLETHYLKETONE (MATERIAL NO 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.
(1)Remove the old sealant from the contact surface of retractable Y-guide and drain sump with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(2)Apply a thin coat of sealants (Material No. 09-016) to contact surface of drain sump.
(3)Clean and check the work area before installation of the new component.

D. Installation (Ref. Fig. 401)
(1)Apply special materials (Material No. 05-002) to threads and shafts of screws (2),(4).
(2)Position retractable Y-guide (1) and install screws (2),(4) with washers (3),(5).
(3)Apply special materials (Material No. 05-027) to the attachment elements.
(4)Apply special materials (Material No. 05-005) to the material applied to the attachment elements and to the edges of the retractable Y-guide (1).

E. Test
Initial conditions:
- FWD and/or AFT cargo compartment door(s) opened and door actuator safety lock(s) installed.

| ACTION | RESULT |
|---|---|
| 1. On retractable Y-guide | |
| - Depress lowering lever and push roller down. | Roller locks in lowered position below level of roller track. |
| - Pull release lever towards the guide hinge. | Roller raises and locks in raised position. |




Retractable Y-Guide
Figure 401

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ball strips (Ref. 25-52-22, P. Block 401).
(3)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Wooden or Plastic Scraper |
| E. | Cotter Pins |
| F. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| H. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| I. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| J. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

R **ON A/C 101-104,

(Ref. Fig. 401)

R **ON A/C 001-100, 105-200,

(Ref. Fig. 402)

R **ON A/C 001-100,

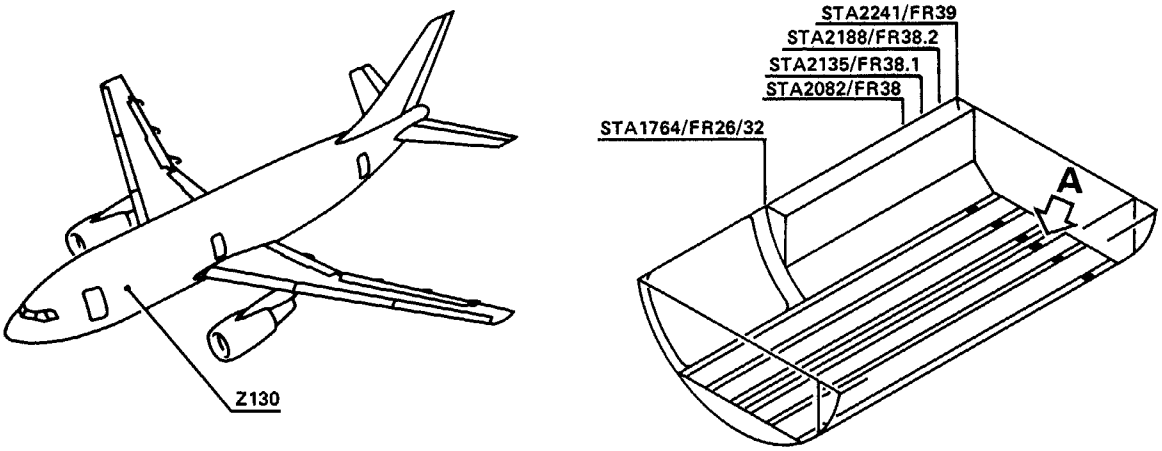
(Ref. Fig. 403)

**ON A/C 101-200,

(Ref. Fig. 404)

**ON A/C ALL

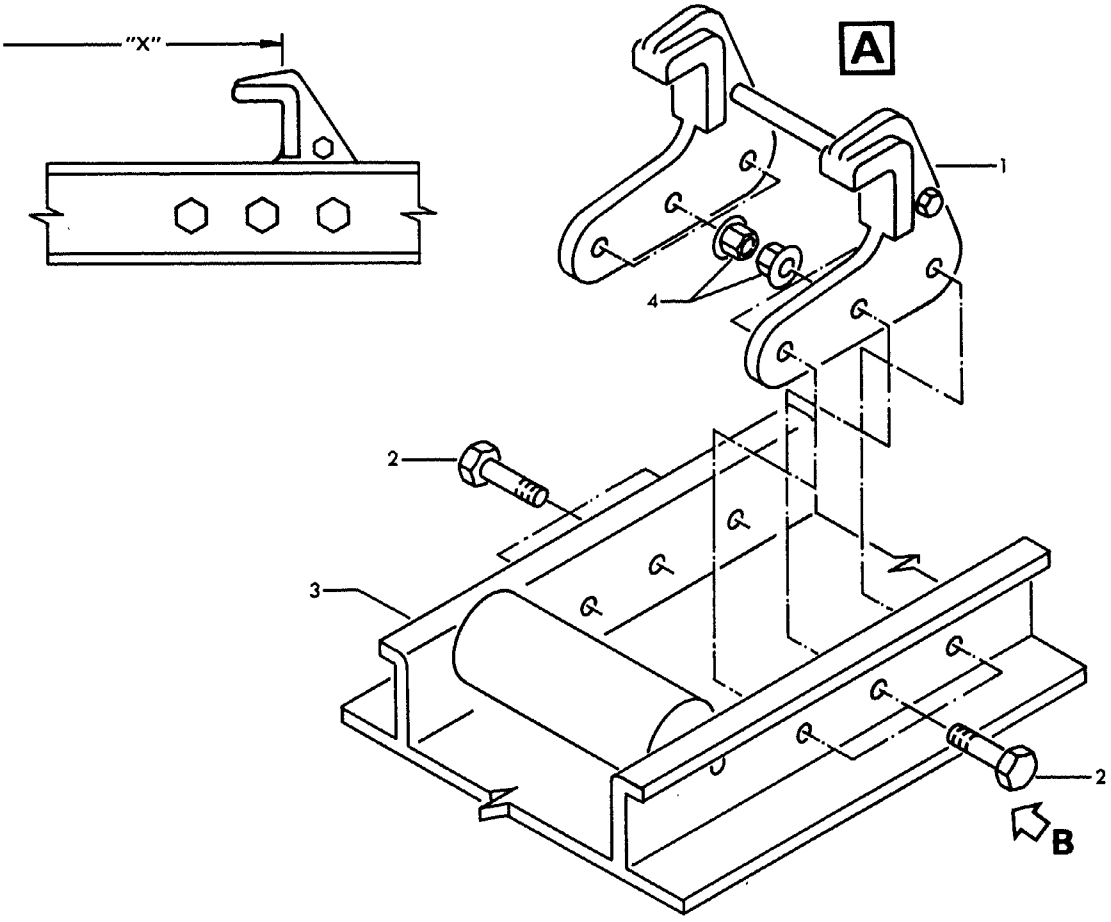
A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).




FWD CARGO COMPARTMENT

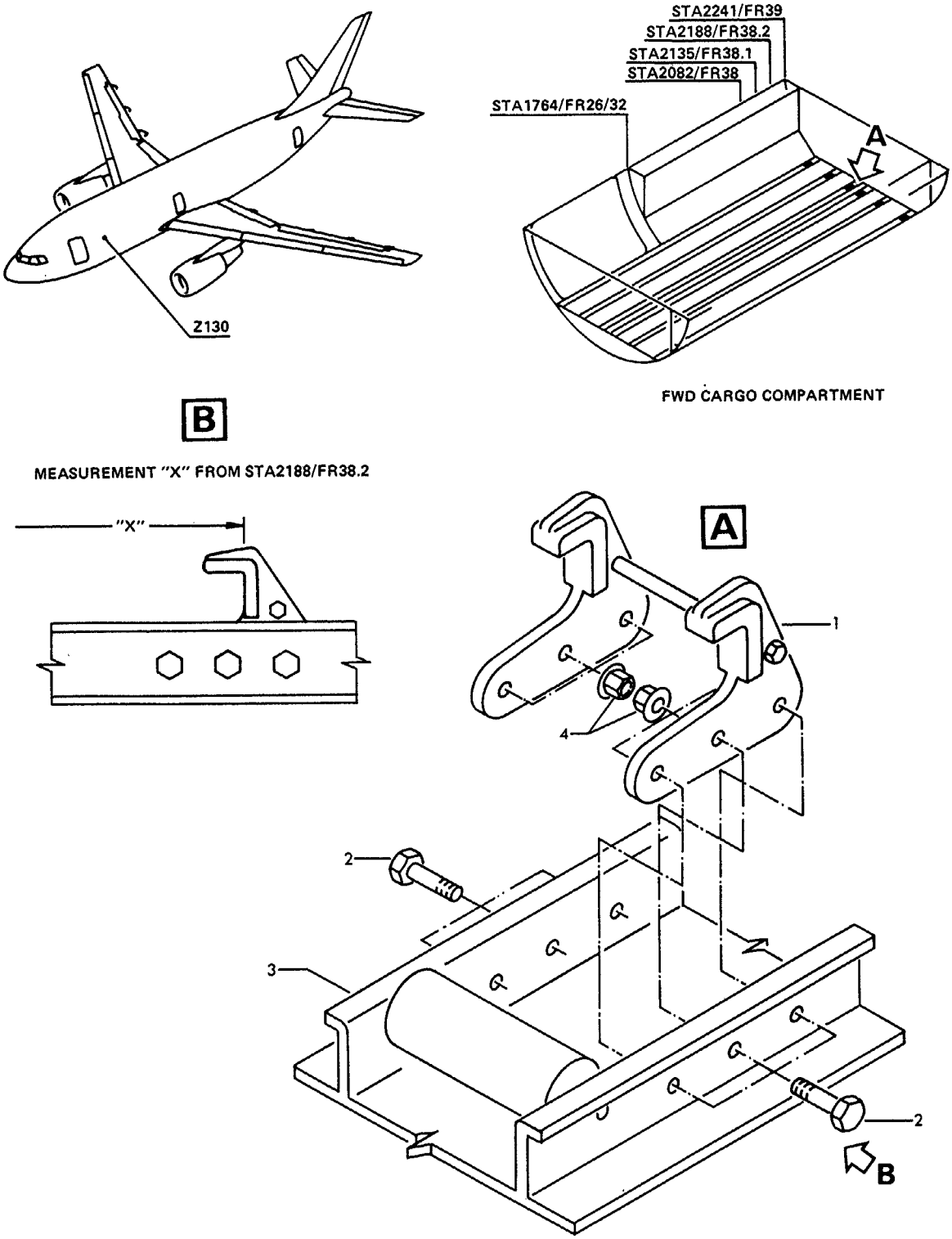
B

MEASUREMENT "X" FROM STA2135/FR38.1

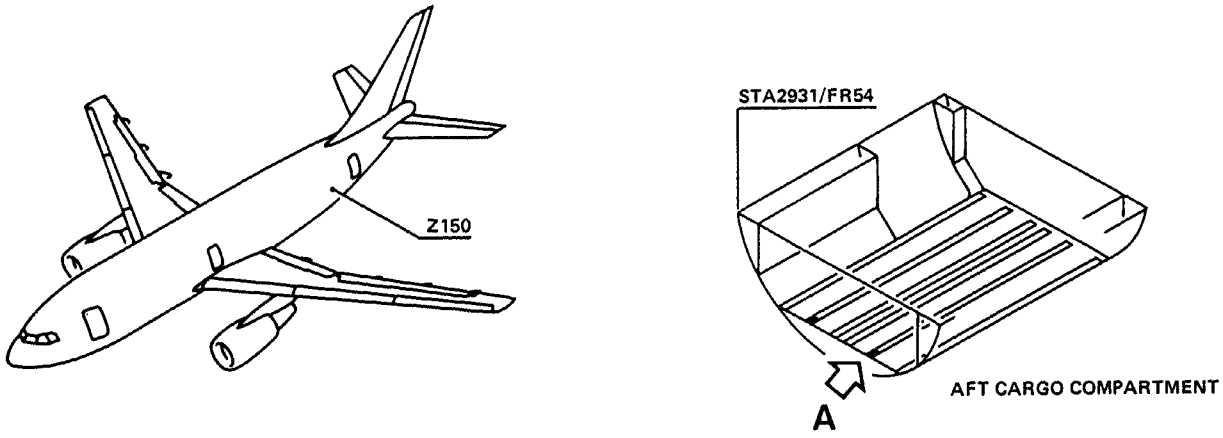


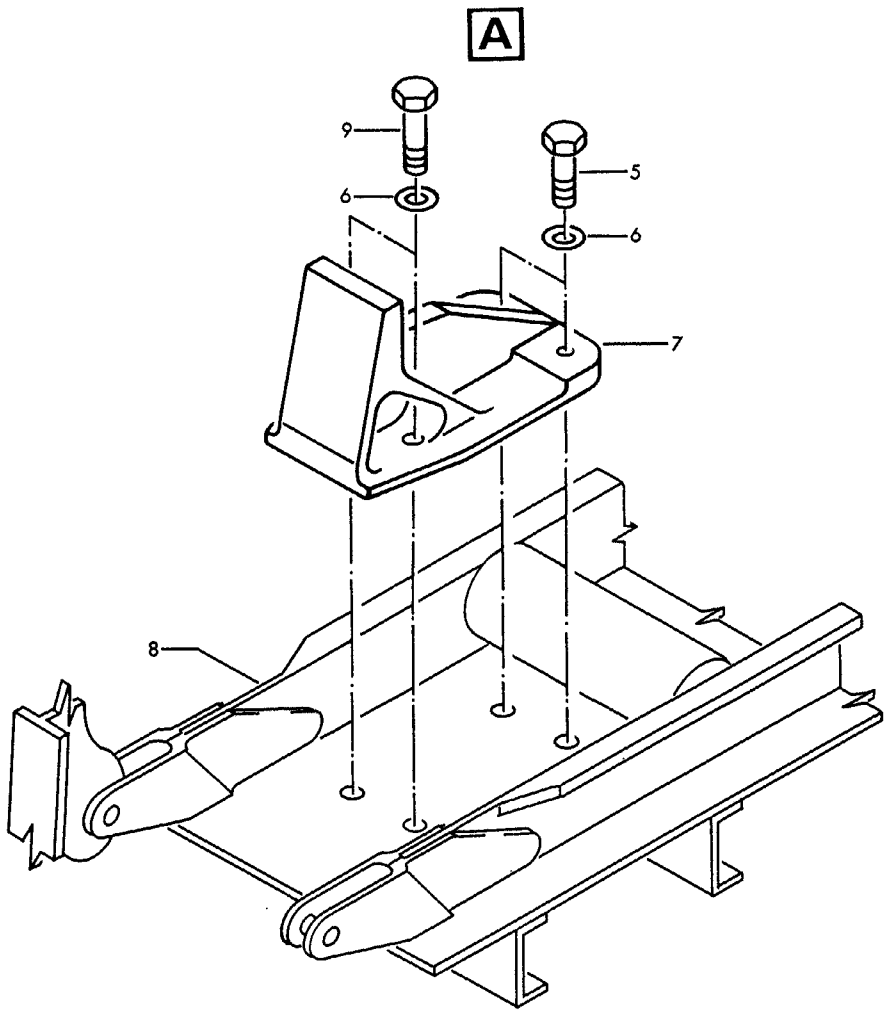

BM3 25 52 53 4 AAM0 01/29

Fixed Container Latches
FWD Cargo Compartment
Figure 401



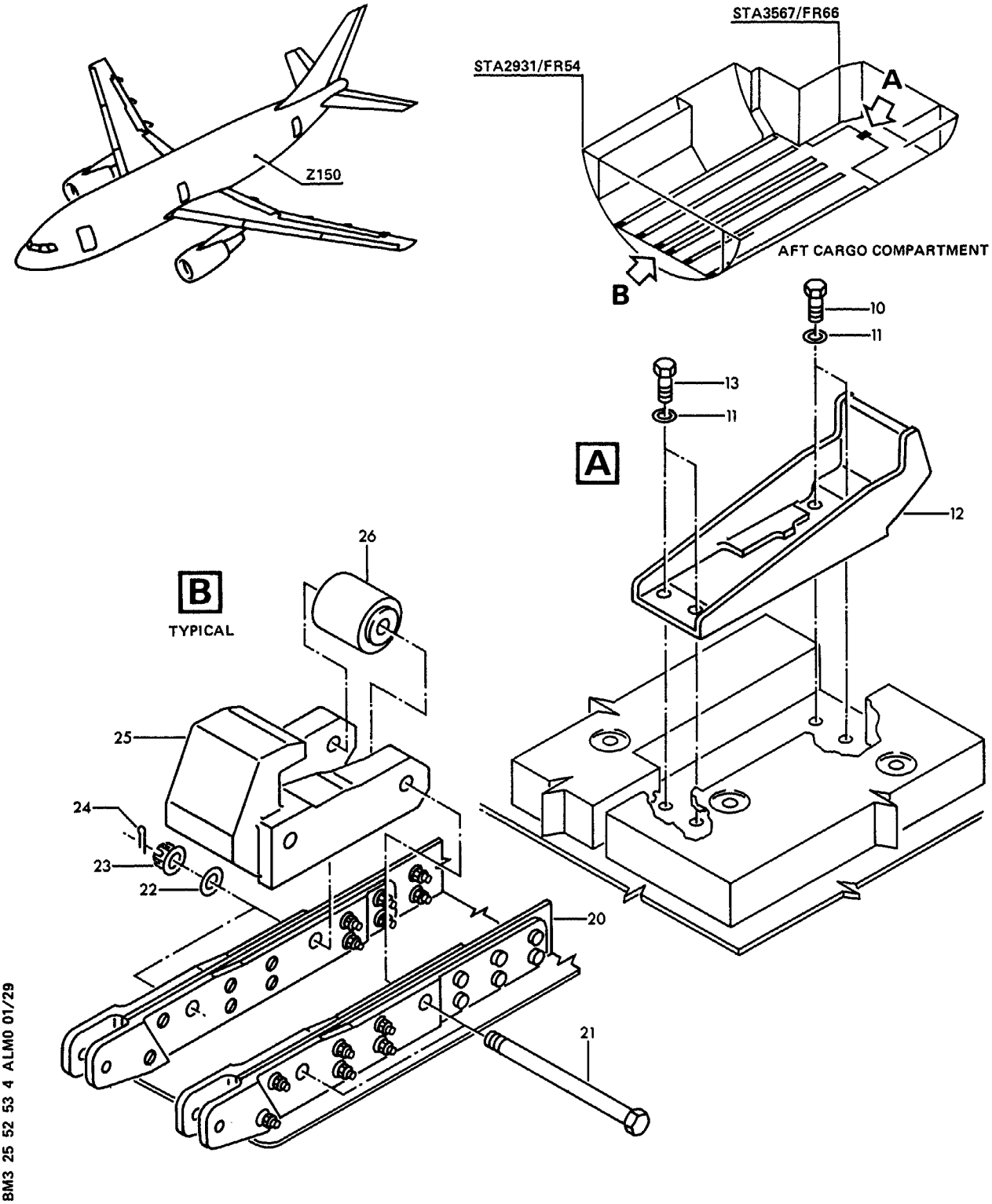

Fixed Container Latches
FWD Cargo Compartment
Figure 402




BM3 25 52 53 4 AEM0 01/29

Fixed Container Latches
AFT Cargo Compartment
Figure 403




Fixed Container Latches
AFT Cargo Compartment
Figure 404

(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal
(1)FWD Cargo Compartment
(a)Remove nuts (4), bolts (2).
(b)Remove fixed container latch (1) from roller track (3).

**ON A/C 001-100,

(2)AFT Cargo Compartment at STA2931/FR54.
(a)Remove bolts (5),(9) and washers (6).
(b)Remove fixed container latch (7) from roller track (8).

**ON A/C 101-200,

(2)AFT Cargo Compartment at STA2931/FR54
(a)Remove and discard cotter pins (24).
(b)Remove nuts (23), washers (22) and bolts (21).
(c)Remove roller (26) from fixed container latch (25).
(d)Remove fixed container latch (25) from roller track (20).
(3)AFT Cargo Compartment at STA3567/FR66
(a)Remove bolts (10),(13) and washers (11).
(b)Remove fixed container latch (12) from structure.

**ON A/C ALL

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove the old sealant from the fixed container latch and from the roller track with cleaning agent (Material NO. 11-003) and a wooden or plastic scraper.

(2)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.

D. Installation

(1)FWD Cargo Compartment

(a)Apply a layer of sealant (Material No. 09-016) to contact surface of fixed container latch (1).

R **ON A/C 101-104,

NOTE : Measurement "X" is 279.5 mm (11.0 in.) from STA2135/FR38.1.

R **ON A/C 001-100, 105-200,

NOTE : Measurement "X" is 155.9 mm (6.14 in.) from STA2135/FR38.2.

**ON A/C ALL

(b)Position fixed container latch (1) in roller track (3).

(c)Apply anti-corrosion compound (Material No. 05-002) to threads and shaft of bolts (2).

(d)Install bolts (2), nuts (4) and tighten.

(e)Apply special materials (Material No. 05-027) to the attachment elements.

(f)Apply special materials (Material No. 05-005) to the material applied to the attachment elements and to the edges of the fixed container latch.

**ON A/C 001-100,

(2)AFT Cargo Compartment at STA2931/FR54

(a)Apply a layer of sealant (Material No. 09-016) to contact surface of fixed container latch (7).

(b)Position fixed container latch (7) in roller track (8).

(c)Apply anti-corrosion compound (Material No. 05-002) to threads and shaft of bolts (5),(9).

(d)Install bolts (5),(9), washers (6) and tighten.

(e)Apply special materials (Material No. 05-027) to the attachment elements.

(f)Apply special materials (Material No. 05-005) to the material applied to the attachment elements and to the edges of the fixed container latch.

**ON A/C 101-200,

(2)AFT Cargo Compartment at STA2931/FR54
(a)Apply a layer of sealant (Material No. 09-016) to contact surface of fixed container latch (25).
(b)Position fixed container latch (25) in roller track (20).
(c)Apply anti-corrosion compound (Material No. 05-002) to threads and shaft of bolts (21).
(d)Position roller (26) in fixed container latch (25) and install bolts (21).
(e)Install washers (22), nuts (23) and tighten.
(f)Install new cotter pins (24) and safety.
(g)Apply special materials (Material No. 05-027) to the attachment elements.
(h)Apply special materials (Material No. 05-005) to the material applied to the attachment elements and to the edges of the fixed container latch.
(3)AFT Cargo Compartment at STA 3567/FR66
(a)Apply a layer of sealant (Material No. 09-016) to contact surface of fixed container latch (12).
(b)Position fixed container latch (12) on structure.
(c)Apply anti-corrosion compound (Material No. 05-002) to threads and shaft of bolts (10),(13).
(d)Install bolts (10),(13), washers (11) and tighten.
(e)Apply special materials (Material No. 05-027) to the attachment elements.
(f)Apply special materials (Material No. 05-005) to the material applied to the attachment elements and to the edges of the fixed container latch.

**ON A/C ALL

D. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(3)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(4)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove warning notice.
(7)Remove access platform.

## SERVO MECHANISM AND ACTUATOR - REMOVAL/INSTALLATION

### 1. Reason for the Job

A. Removal/Installation of actuating units, manual release cables, guide tubes, pulleys and bellcranks.

### 2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Tube Cutter, if required |
| C. | Bending Former, if required |
| D. | Torque Wrench, up to 1 m.daN (88.5 lbf.in.) |
| E. | Sleeves |
| F. | Circuit Breaker Safety Clips and Tags |
| G. | Warning Notice Prohibiting Operation of Cargo Loading System |
| H. | Rigging Pin(s), Dia. 4 mm (0.157 in.) |
| I. | Lockwire, Corrosion-Resistant Steel, Dia. 0.63 mm (0.025 in.) |
| J. | Wooden or plastic scraper |
| K. | Cotter Pins |
| L. | Spring Pin |
| M. Material No. 04-004 | Common Greases (Ref. 20-31-00) |
| N. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| O. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| P. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| Q. Material No. 08-007 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| R. Material No. 09-013 | Sealants (Ref. 20-31-00) |
| S. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 25-52-41, P. Block 401 | Door Sill Latch |
| - 25-52-71, P. Block 401 | Joystick |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

### 3. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compart-

ment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on loading system control panel.
(7)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

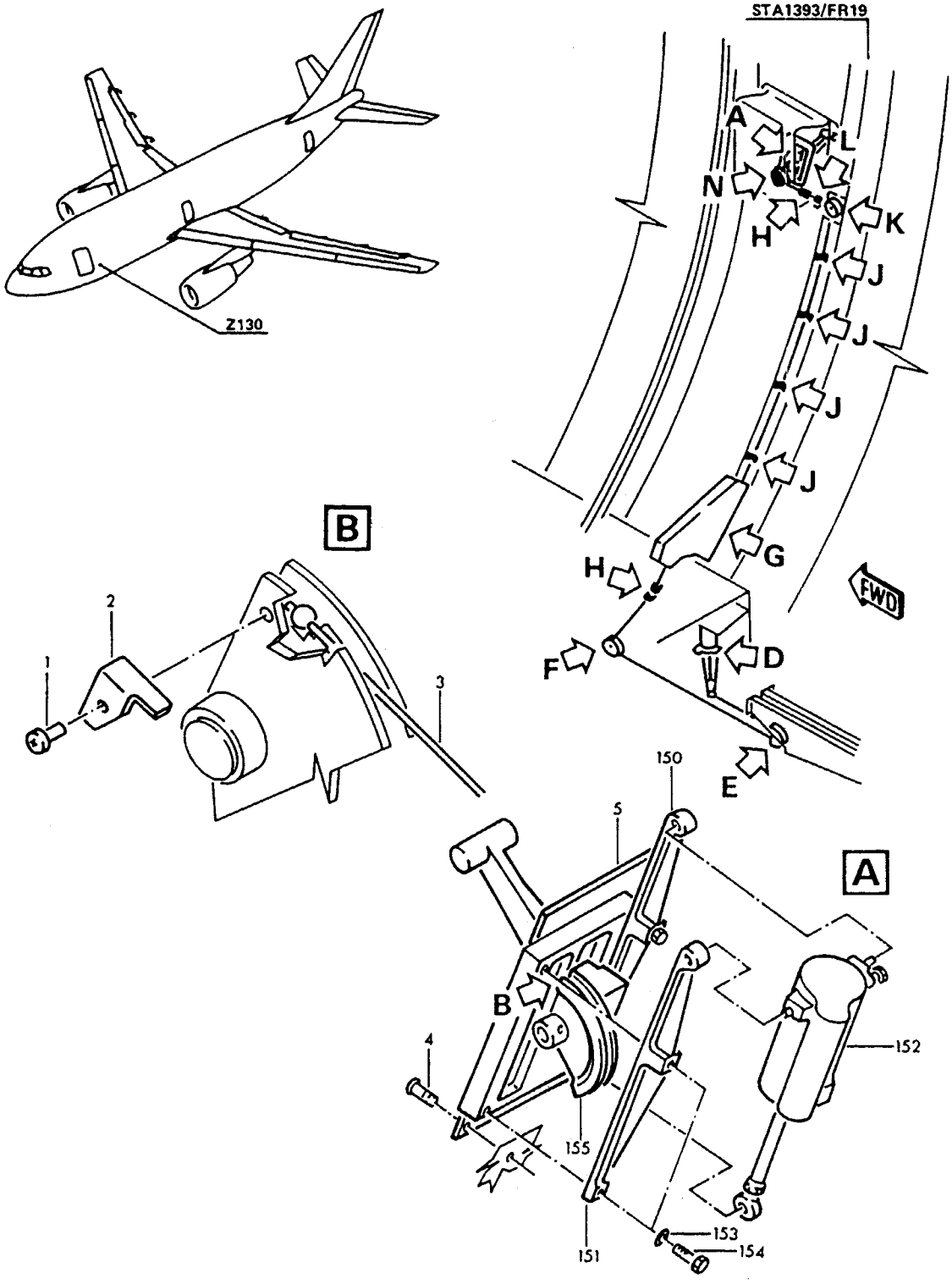
** For FWD and AFT Cargo Compartments

(8)Remove ball mats in door sill area (Ref. 25-52-22, P. Block 401).
(9)Remove joystick complete with mounting plate (Ref. 25-52-71, P. Block 401).
(10)Remove mounting cover from forward door sill latch to gain access to rigging pin hole.
(11)Safety forward door sill latch in FWD and/or AFT cargo compartment with rigging pin dia. 4 mm (0.157 in.).

B. Removal

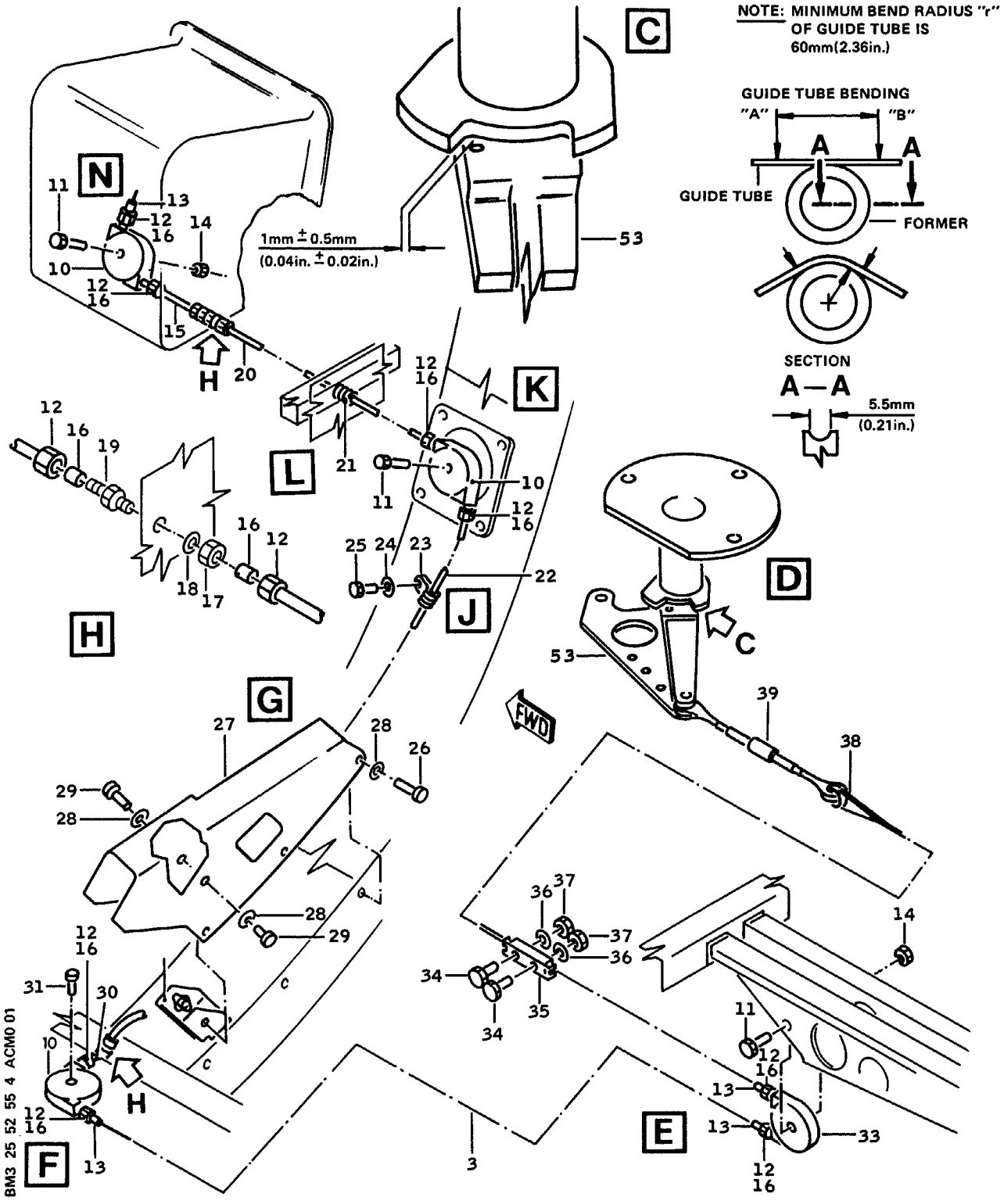
** For FWD Cargo Compartment

(Ref. Fig. 401)
(Ref. Fig. 402)
(Ref. Fig. 403)
(Ref. Fig. 404)
(1)Actuating Unit and Manual Release Cable
(a)Release turnbuckle (39).
(b)Remove nuts (37), washers (36), and bolts (34) from retainer (35) and pull manual release cable (3) through thimble (38).
(c)Remove screws (4) and ease out actuating unit (5) to gain access to cable retainer (2).



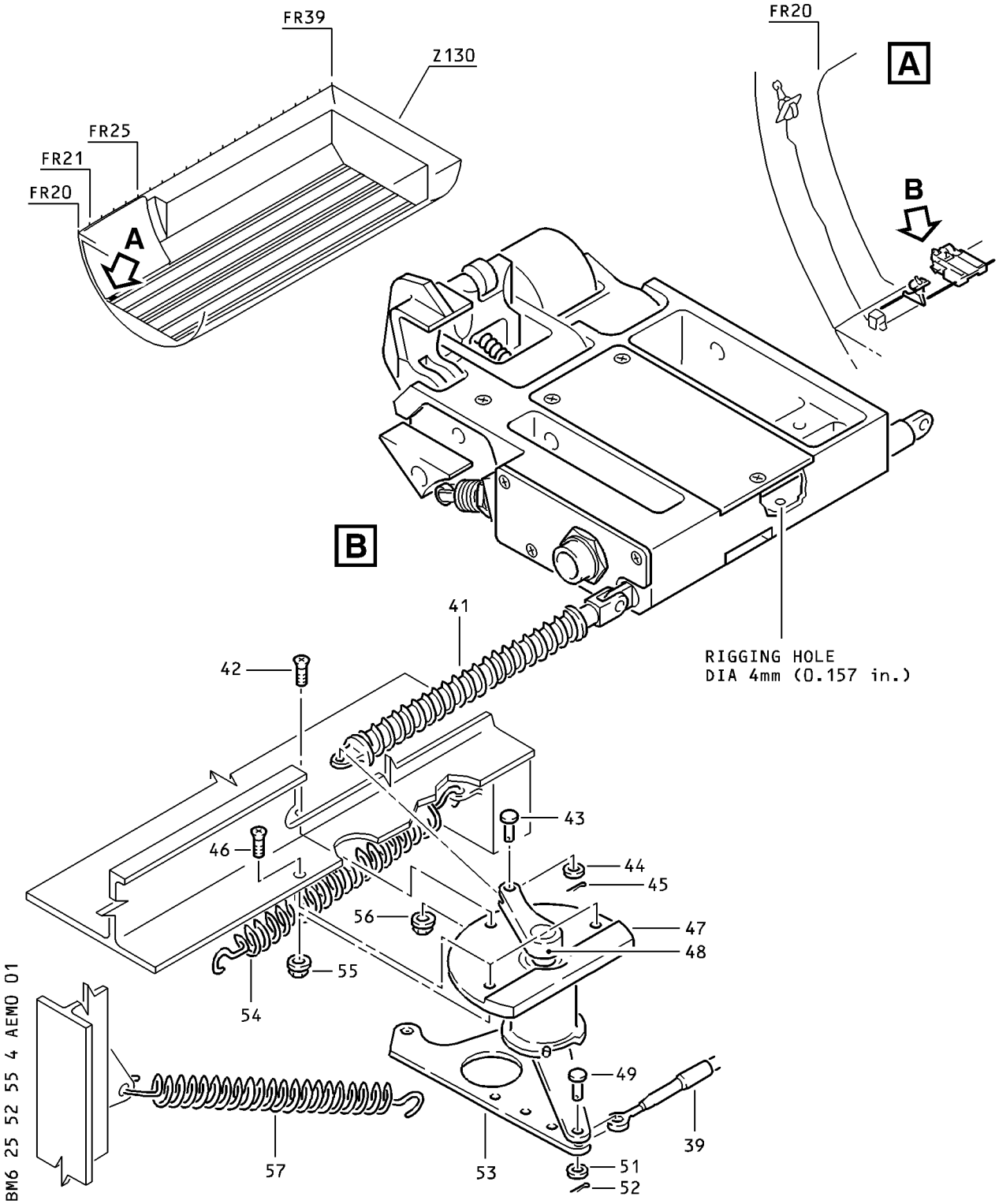

Servo Mechanism and Actuator -
FWD Cargo Compartment
Figure 401

R



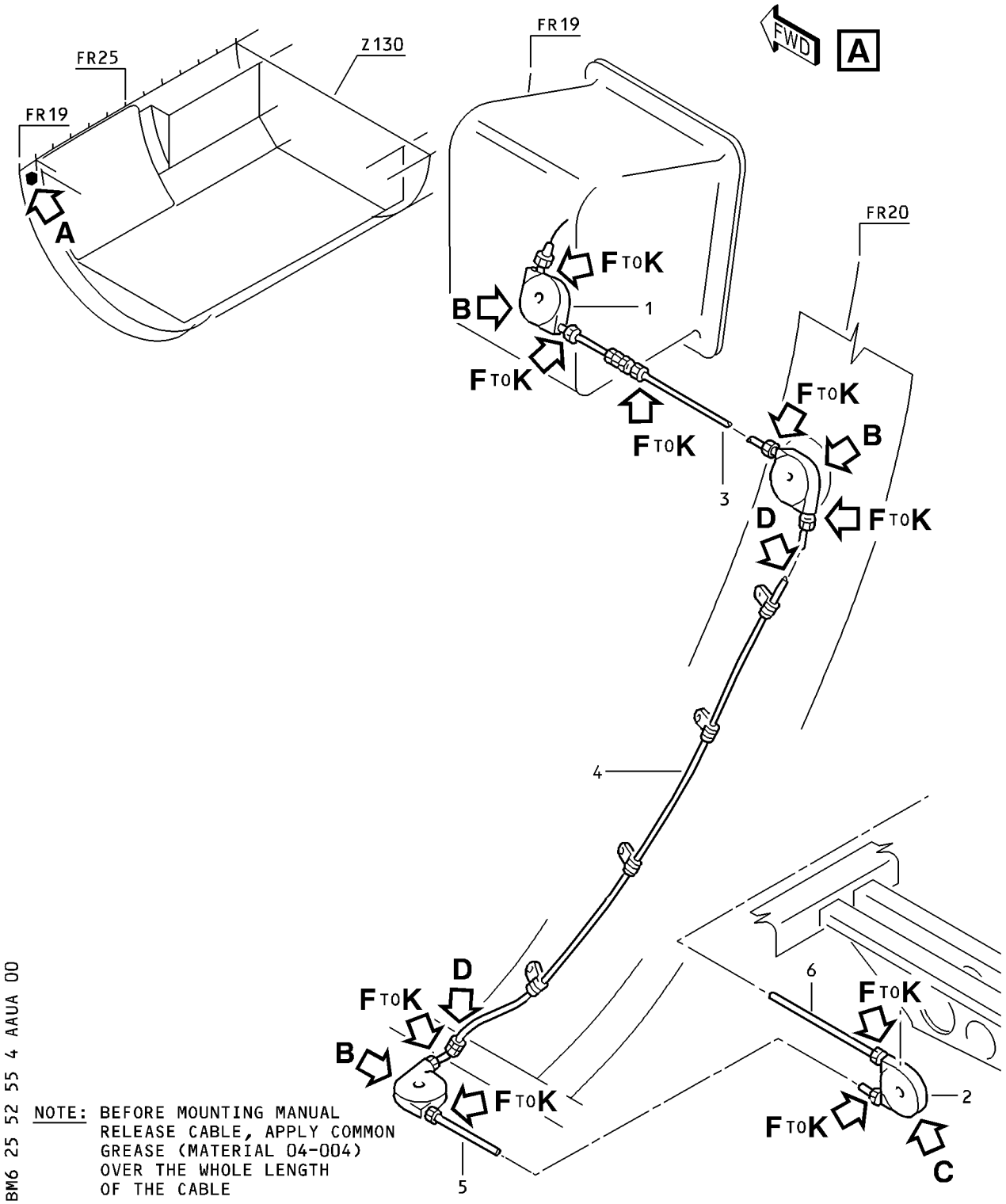

Manual Release Cable - FWD Cargo Compartment
Figure 402

R




Bellcrank - FWD Cargo Compartment
Figure 403

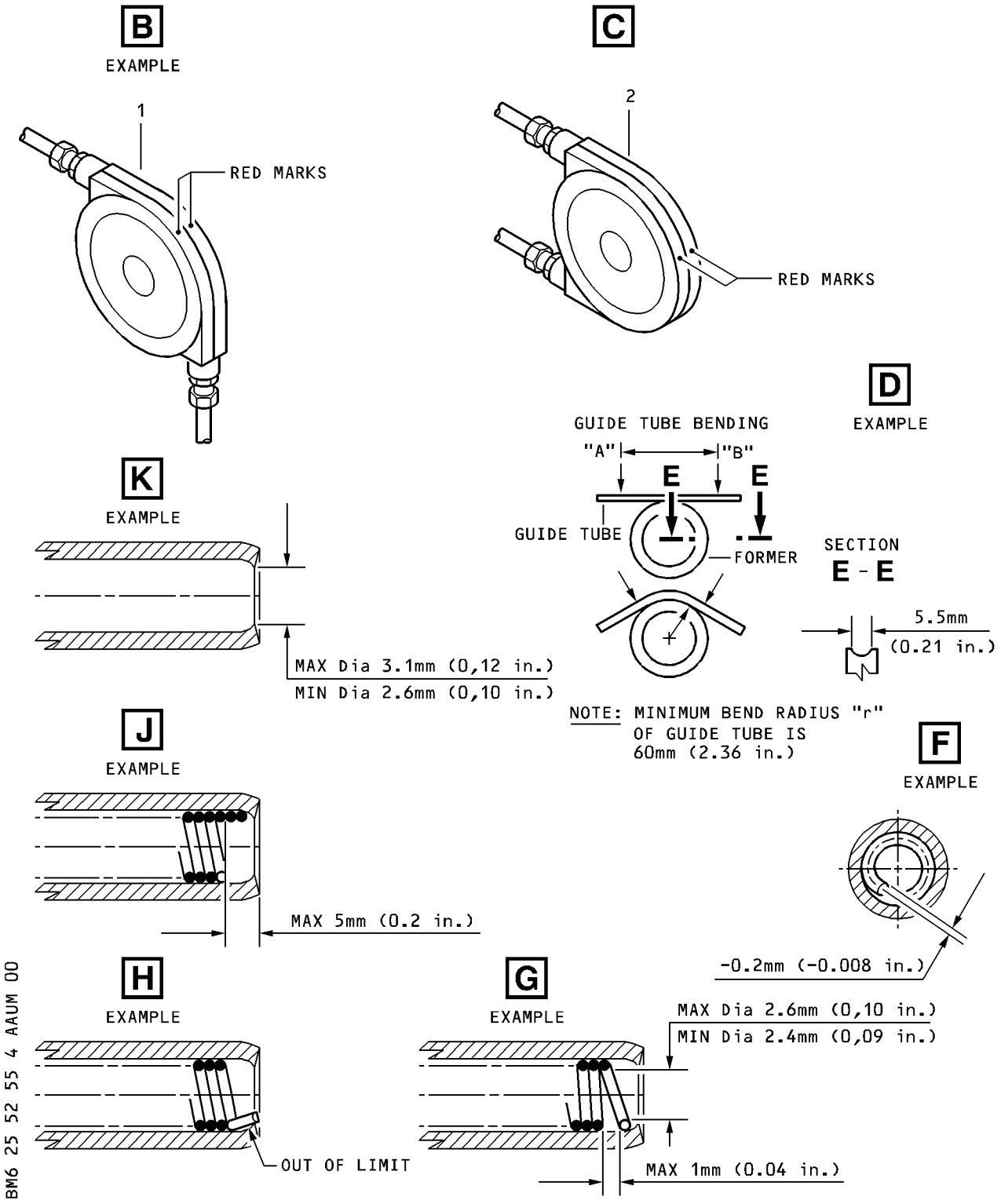
R




BM6 25 52 55 4 AAUA 00

Manual Release Cable Replacement - FWD Cargo Compartment (Sheet 1)
Figure 404

R




Manual Release Cable Replacement -
FWD Cargo Compartment (Sheet 2)
Figure 404

(d)Remove screw (1) and cable retainer (2).
(e)Disconnect and pull out the manual release cable (3).
(f)Remove actuating unit (5).

(2)Hydraulic Damper
(a)Remove the screws (154), the washers (153) and the traverse (151) from the actuating unit (5).
(b)Remove the hydraulic damper (152) from the traverse (150) and from the cable sector (155).

(3)Guide Tubes
(a)Remove screws (26),(29) and washers (28) from cover plate (27).
(b)Remove cover plate (27).
(c)Remove screws (25), washers (24) and clamps (23) from guide tube (22).
(d)Cut and remove lockwire from nuts (12) at pulleys (10) and bulkhead unions (19).
(e)Loosen nuts (12).
(f)Remove guide tubes (15),(20),(22),(30) and guides (13) with sleeves (16) and nuts (12).

(g)Remove nuts (12) and sleeves (16) from guide tubes (15),(20),(22),(30). Discard sleeves (16).
(h)Remove grommet (21).

(4)Pulleys
(a)Remove screws (11),(31) and nut (14).
(b)Remove pulleys (10),(33).
NOTE : Marking of screws and pulleys facilitates installation.

(5)Bulkhead Union
(a)Remove nuts (17) and washers (18) from bulkhead union (19).
(b)Remove bulkhead union (19).

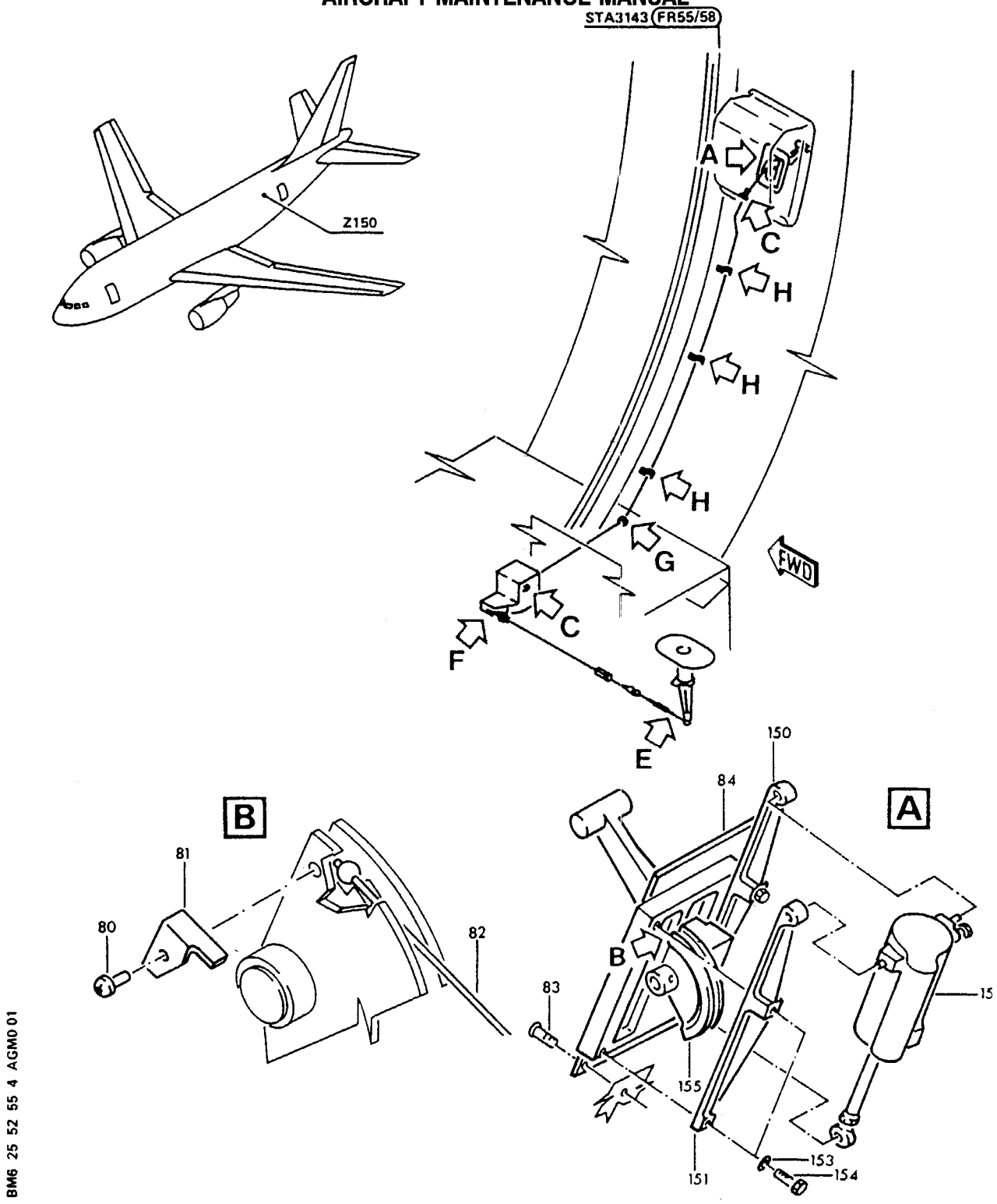
(6)Bellcrank
(a)Remove cotter pin (45), washer (44) and clevis pin (43). Discard cotter pin (45). Disconnect draw bar (41).
(b)Remove cotter pin (52), washer (51) and clevis pin (49). Discard cotter pin (52). Disconnect turnbuckle (39).
(c)Unhook tension springs (54),(57) from bellcrank input lever (53).
(d)Remove screws (46) and nuts (55) and screw (42) with nut (56).
(e)Remove bellcrank (47).

(7)Manual release cable replacement (Ref. Fig. 402, 404).

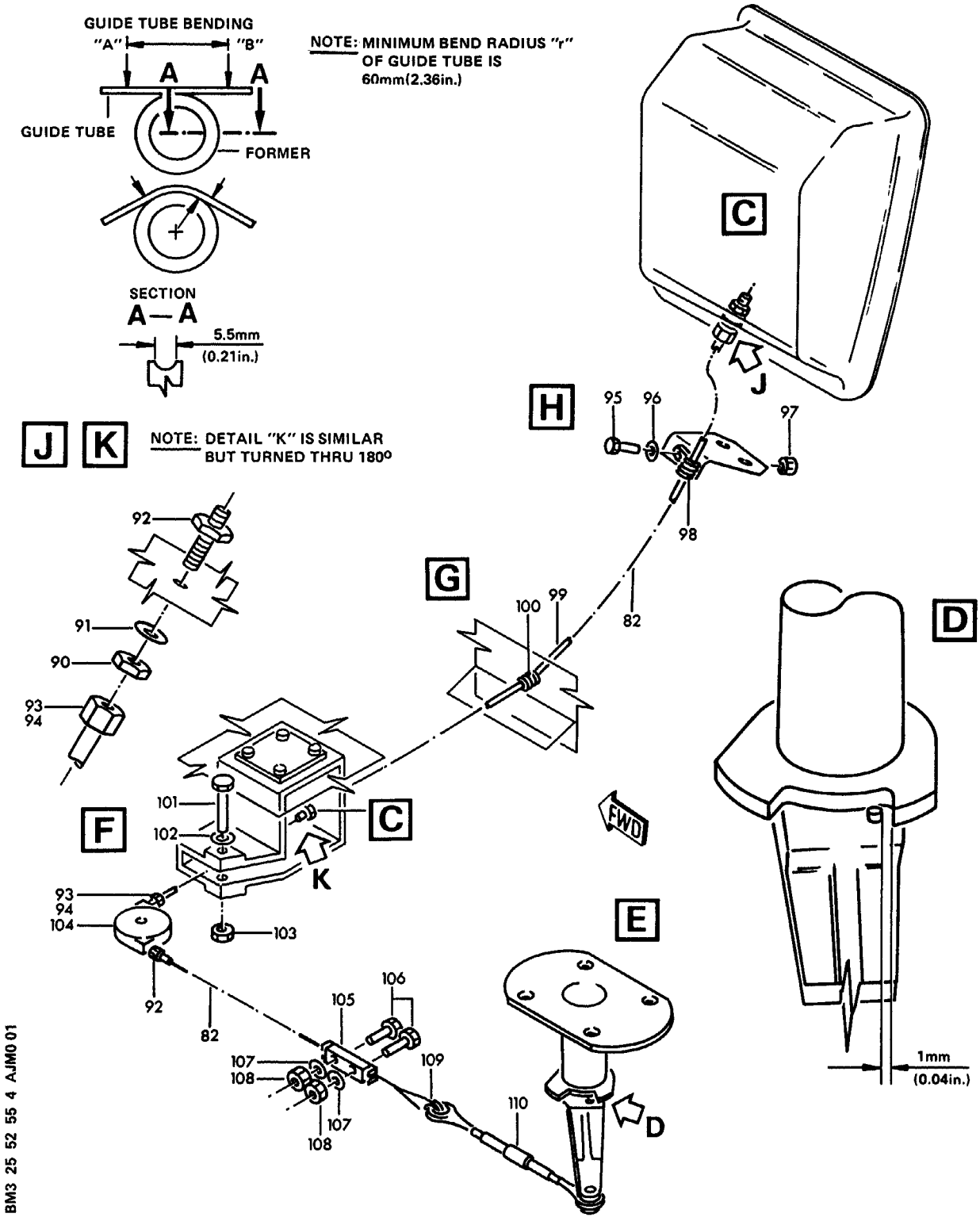
NOTE : This removal procedure is only necessary if the manual release cable is torn.

(a)Release turnbuckle (39).
(b)Remove nuts (37), washers (36) and bolts (34) from retainer (35) and pull manual release cable through thimble (38).
(c)Remove screws (4) and ease out actuating unit (5) to gain access to cable retainer (2).
(d)Remove screw (1) and cable retainer (2).
(e)Disconnect and pull the manual release cable (3) up and out of the affected guide tube (3),(4) or (5).
(f)Measure the length of the manual release cable (3) to obtain the torn position.
(g)Mark the torn position at the affected guide tube (3),(4), or (5).
(h)Remove the screws (25), the washers (24) and the clamps (23) from the affected guide tube (3),(4) or (5).
(j)Loosen the nuts (12).
(k)Remove the affected guide tube (3),(4), or (5) and the guides (19) with the sleeves (16) and the nuts (12).
(l)Remove the nuts (12) and the sleeves (16) from the affected guide tube (3),(4) or (5).
(m)Discard the sleeves (16).
(Ref. Fig. 405)
(Ref. Fig. 406)
(Ref. Fig. 407)
(Ref. Fig. 408)

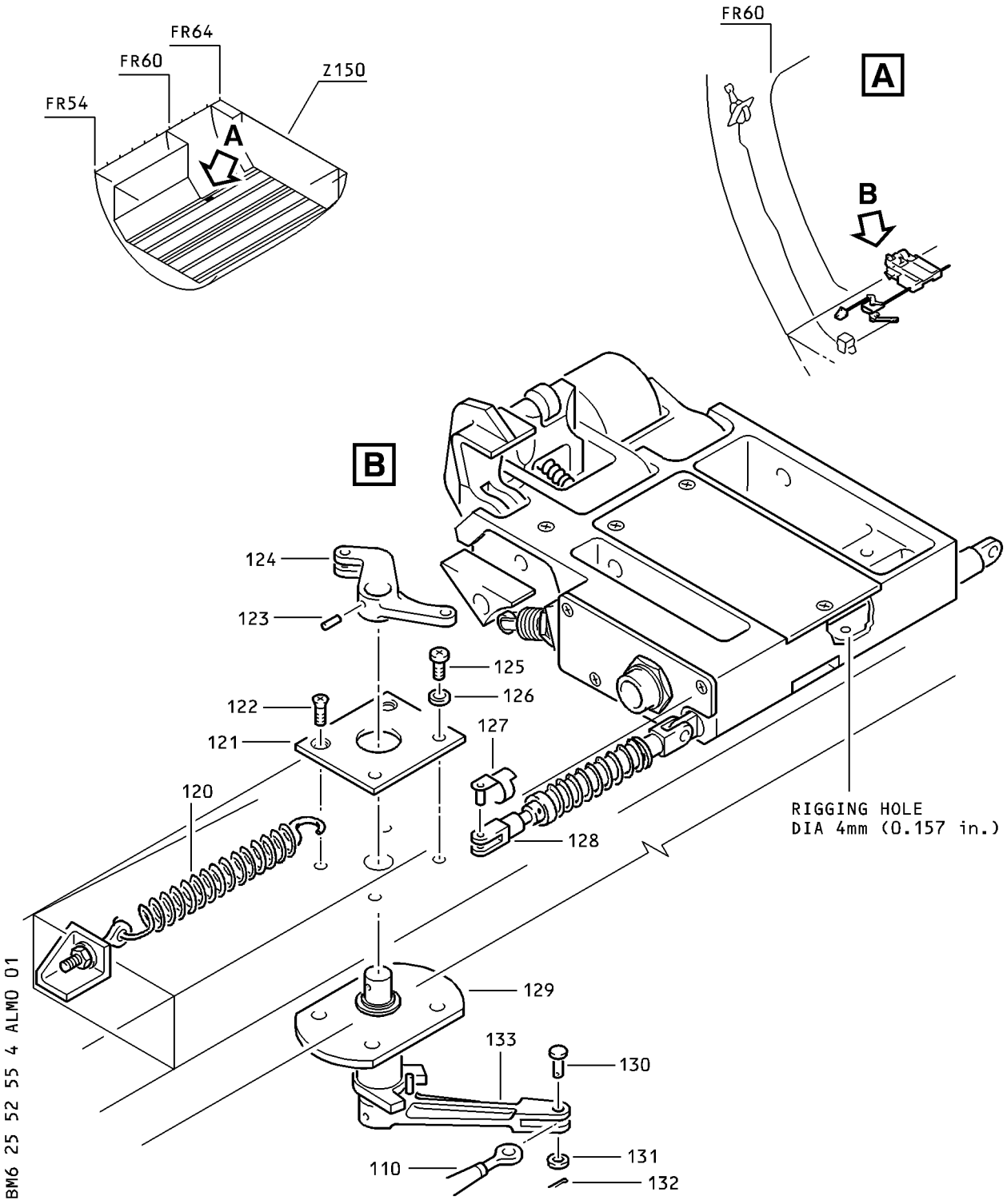
(7)Actuating Unit and Manual Release Cable
(a)Release turnbuckle (110).
(b)Remove nuts (108), washers (107) and bolts (106) from retainer (105) and pull manual release cable (82) through thimble (109).
(c)Remove screws (83) and ease out actuating unit (84) to gain access to



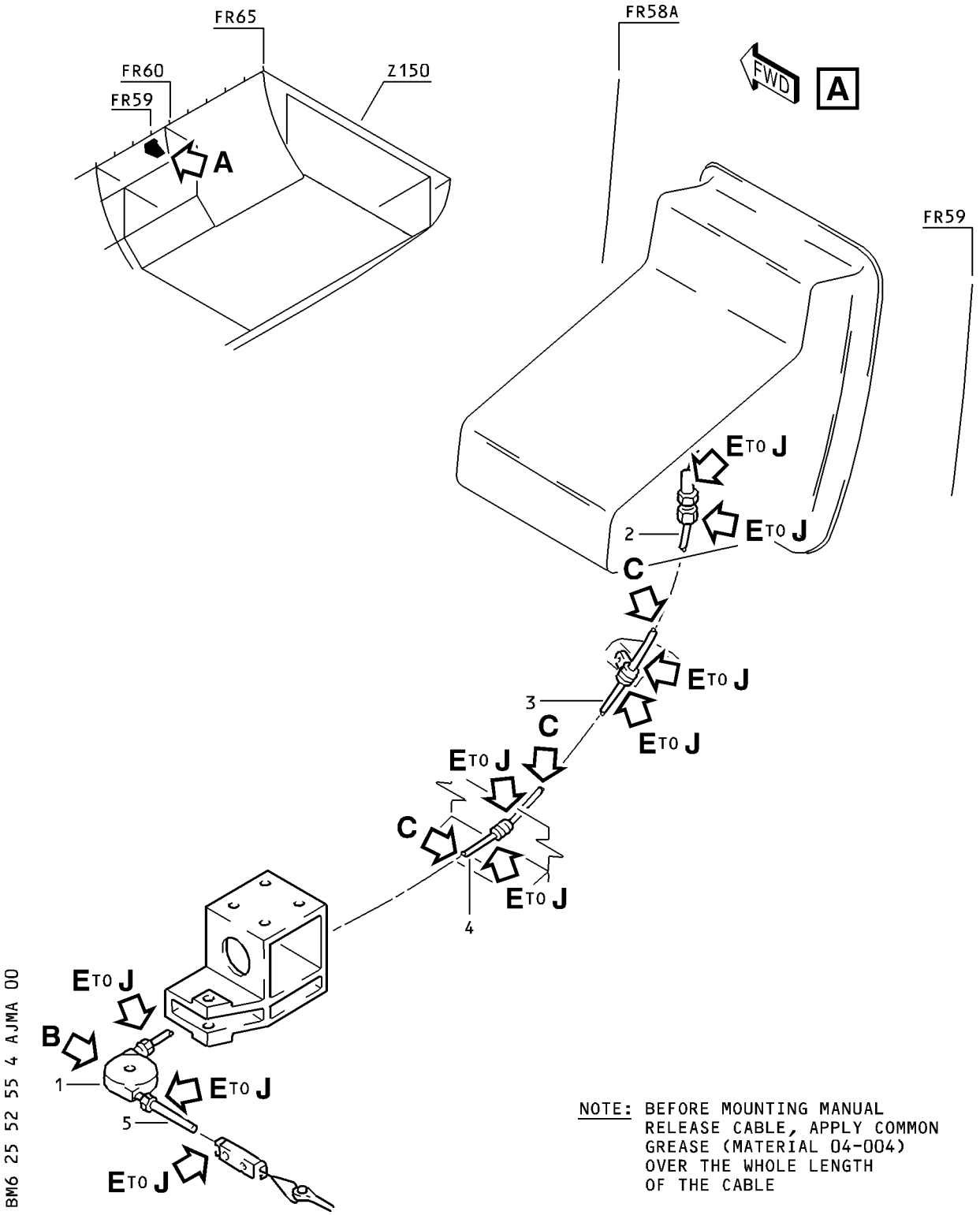

Servo Mechanism and Actuator -
AFT Cargo Compartment
Figure 405




Manual Release Cable - AFT Cargo Compartment
Figure 406



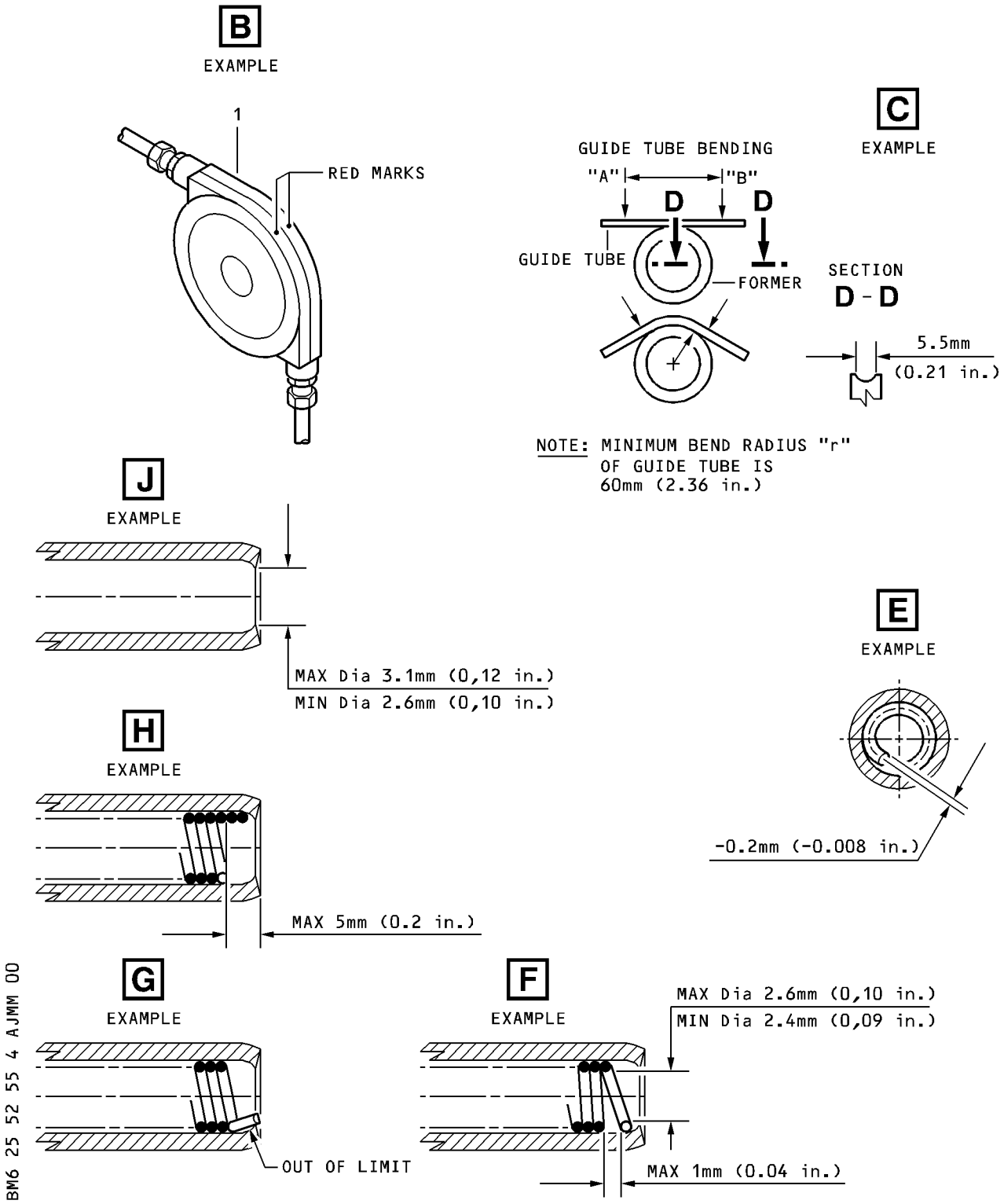

Bellcrank - AFT Cargo Compartment
Figure 407




NOTE: BEFORE MOUNTING MANUAL RELEASE CABLE, APPLY COMMON GREASE (MATERIAL 04-004) OVER THE WHOLE LENGTH OF THE CABLE

Manual Release Cable Replacement -
AFT Cargo Compartment (Sheet 1 of 2)
Figure 408

R




Manual Release Cable Replacement -
AFT Cargo Compartment (Sheet 2 of 2)
Figure 408

R

cable retainer (81).
(d)Remove screw (80) and cable retainer (81).
(e)Disconnect and pull out manual release cable (82).
(f)Remove actuating unit (84).

(8)Manual release cable replacement (Ref. Fig. 406, 408)

NOTE : This procedure is only necessary if the manual release cable is torn.

(a)Release turnbuckle (110).
(b)Remove nuts (108), washers (107) and bolts (106) from retainer (105) and pull manual release cable (82) through thimble (109).
(c)Remove screws (83) and ease out actuating unit (84) to gain access to cable retainer (81).
(d)Remove screw (80) and cable retainer (81).
(e)Disconnect and pull out manual release cable (82).
(f)Remove actuating unit (84).
(g)Disconnect and pull out the manual release cable (82) of the affected guide tube (2),(3),(4) or (5).
(h)Measure the length of the manual release cable (82) to obtain the torn position.
(j)Mark the torn position at the affected guide tube (2),(3),(4) or (5).
(k)Remove the screws (95), the washers (96) and the clamps (98) from the affected guide tube (2),(3),(4) or (5).
(l)Loosen the nuts (93).
(m)Remove the affected guide tube (2),(3),(4) or (5) and the guides (92) with the sleeves (94) and the nuts (93).
(n)Remove the nuts (93) and the sleeves (94) from the affected guide tube (2),(3),(4) or (5).
(p)Discard the sleeves (94).

(9)Hydraulic Damper
(a)Remove the screws (154), the washers (153) and the traverse (151) from the actuating unit (84).
(b)Remove the hydraulic damper (152) from the traverse (150) and from the cable sector (155).

(10)Guide Tube
(a)Remove screws (95), washers (96), nuts (97) and clamps (98) from guide tube (99).
(b)If required, cut and remove lockwire from nuts (93) at bulkhead unions (92) and pulley (104).
(c)Loosen nuts (93).
(d)Remove guide tube (99).
(e)Remove nuts (93) and sleeves (94) from guide tube (99). Discard sleeves (94).
(f)Remove Tesaflex tape (100) from guide tube (99).

(11)Bulkhead Union
(a)Remove nuts (90) and washers (91) from bulkhead union (92).
(b)Remove bulkhead union (92).

(12)Pulley
(a)Remove bolt (101), washer (102) and nut (103).
(b)Remove pulley (104).

(13)Bellcrank
(a)Unhook tension spring (120) from bellcrank output lever (124).
(b)Remove spring clip (127) from draw bar (128). Disconnect draw-bar (128).
(c)Remove spring pin (123) and bellcrank output lever (124). Discard spring pin (123).
(d)Remove cotter pin (132), washer (131) and clevis pin (130). Discard cotter pin (132). Disconnect turnbuckle (110) from bellcrank input lever (133).
(e)Support bellcrank (129).
(f)Remove screws (125), washers (126) and screws (122).
(g)Remove bellcrank (129) and shim plate (121).

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

** For FWD Cargo Compartment

(1)Remove the old sealant from the bellcrank (47) and from door sill structure with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(2)Remove the old sealant from the actuating unit (5) and from the installation area with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(Ref. Fig. 404)
(3)Make sure that the parts retained from the removed component are clean and in the correct condition.
(4)Check the dimension of the inner diameter of the affected guide tube (3), (4), or (5) at the memory mark position.
(5)The bellmouth must have a smooth contour and no edges.
(6)Make sure that the end of the helix is not more than 5.0 mm (0.2 in.) before reaching the end of the guide tube.
(7)If not, rework the guide tube.
(8)Make sure that the end of the helix is not more than 1.0 mm (0.04 in.) to the next helix wire pitch.
(9)Make sure that the end of the helix does not deform the diameter of the guide tube.
(10)If the end of the helix is deformed, replace the guide tube.
(11)Before installation of the manual release cable, grease the cable slightly with common grease (Material No. 04-004).

** For AFT Cargo Compartment

(1)Apply two layers of Tesaflex tape to guide tube (99) in area where guide tube passes through door sill frame.

(2)Remove the old sealant from the bellcrank (129), from the shim plate (121) and from the structure with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(3)Remove the old sealant from the actuating unit (84) and from the installation area with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(Ref. Fig. 408)
(4)Check the dimension of the inner diameter of the affected guide tube (2), (3), (4) or (5) at the memory mark position.
(5)The bellmouth must have a smooth contour and no edges.
(6)Make sure that the end of the helix is not more than 5.0 mm (0.2 in.) before reaching the end of the guide tube.
(7)If not, rework the guide tube.
((8)Make sure that the end of the helix is not more than 1.0 mm (0.04 in.) to the next helix wire pitch.
(9)Make sure that the end of the helix does not deform the diameter of the guide tube.
(10)If the end of the helix is deformed, replace the guide tube.
(11)Before installation of the manual release cable, grease the cable slightly with commom grease (Material No. 04-004).

** For FWD and AFT Cargo Compartments

(4)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.

D. Installation

** For FWD Cargo Compartment (Ref. Fig. 401, 402, 403)

(1)Bellcrank
(a)Apply a layer of sealant (Material No. 09-016) to the contact surface of the bellcrank (40).
(b)Apply anti-corrosion compound to threads of screws (46),(42).
(c)Position bellcrank (47) in door sill structure.
(d)Install screws (46) and nuts (55) and screw (42) with nut (56).
(e)Hook tension springs (54),(57) to bellcrank input lever (53).
(f)Connect draw bar (41) to bellcrank output lever (48).
(g)Install clevis pin (43), washer (44) and new cotter pin (45).
(h)Connect turnbuckle (39) to bellcrank input lever (53).
(i)Install clevis pin (49), washer (51) and new cotter pin (52).
(j)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(k)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the bellcrank (40).
(2)Bulkhead Union
(a)Position bulkhead union (19) and install washers (18) and nuts (17). If applicable, safety nuts (17) with lockwire.
(3)Pulleys
(a)Position pulleys (10),(33).

(b)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (11),(31) and install with washer (32) and nut (14).

(4)Guide Tubes

(a)If required, bend new guide tube sections as necessary to fit airplane
R structure.

NOTE : Tube must be bent cold by hand. Bending must only be applied at positions "A" and "B" to prevent kinking. After each bending operation insert cable in tube to check for possible kinks. Minimum bend radius of tube is 60 mm (2.36 in.).

(b)Position clamps (23) on guide tube (22).

(c)Apply thread locking compound (Material No. 08-007) to threads of nuts (12) and position with new sleeves (16) on guide tubes (15),(20),(22),(30).
Apply sealant (Material No. 09-013) to outer surface of grommet and install grommet (21).

(d)Push ends of guide tubes (15),(20),(22),(30) fully into bulkhead unions (19) and pulleys (10).

(e)Install nuts (12).

NOTE : Do not fully tighten nuts at this stage.

(f)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (25) and install with washers (24) through clamps (23).

(g)TORQUE nuts (12) to between 0.6 and 0.8 m.daN (53.1 and 90.4 lbf.in.). If required, safety nuts with lockwire.

(5)Hydraulic Damper

(a)Apply anti-corrosion compound (Material No. 05-002) to the threads of the screws (154).

(b)Put the hydraulic damper (152) in the installation position.

(c)Push the door sill lock handle to the up position.

(d)Connect the hydraulic damper (152) to the cable sector (155) and to the traverse (150).

(e)Connect the traverse (151) to the hydraulic damper (152).

(f)Install the screws (154) and the washers (153).

(g)Apply corrosion-preventive lubricant (Material No. 05-027) to the attachment elements.

(h)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements.

(6)Actuating Unit and Manual Release Cable

(a)Apply a layer of sealant (Material No. 09-016) to the contact surface of the actuating unit (5).

(b)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (1),(4),(34).

(c)Apply grease (Material No. 04-004) lightly to manual release cable (3) and install manual release cable (3) through guide tube and pulleys.

(d)Position actuating unit (5) and connect manual release cable (3). Install cable retainer (2) and screw (1). Safety screw (1) with lacquer.

(e)Install actuating unit (5) with screws (4). Push door sill lock handle to upper position.

(f)Pull manual release cable (3) taut and install through thimble (38) to retainer (35).

(g)Install bolts (34) with washers (36) and nuts (37). TORQUE nuts to between 0.6 and 0.8 m.daN (53.1 and 90.4 lbf.in.).
(h)Install cover plate (27) and secure with screws (26) and screws (29) with washers (28).
(i)Adjust turnbuckle (39) so that a clearance of 1 ±0.5 mm (0.04 ±0.02 in.) is obtained at bellcrank input lever.
(j)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(k)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the actuating unit (5).
(l)Perform test (Ref. step E).

** For AFT Cargo Compartment (Ref. Fig. 405, 406, 407)

(6)Bellcrank
(a)Apply a layer of sealant (Material No. 09-016) to the contact surface of the bellcrank (129) and of the shim plate (121).
(b)Apply anti-corrosion compound (Material No. 05-002) to the threads of screws (122),(125).
(c)Position bellcrank (129) and shim plate (121) in door sill structure.
(d)Install screws (122) and screws (125) with washers (126).
(e)Position bellcrank output lever (124) and install new spring pin (123).
(f)Hook tension spring (120) to bellcrank output lever (124).
(g)Connect draw bar (128) to bellcrank output lever (124) and install spring clip (127).
(h)Connect turnbuckle (110)to bellcrank input lever (133) and install clevis pin (130), washer (131) and new cotter pin (132).
(i)Apply corrosion preventive lubricant (Material No. 05-027) to the attaching parts.
(j)Apply corrosion preventive (Material No. 05-005) to the material applied to the attaching parts and to the edges of the bellcrank (129) and of the shim plate (121).
(8)Pulley
(a)Position pulley (104).
(b)Apply anti-corrosion compound (Material No. 05-002) to thread of bolt (101) and install with washer (102) and nut (103).
(9)Bulkhead Union
(a)Position bulkhead union (92) and install washers (91) and nuts (90). If required, safety nuts (90) with lockwire.

(10)Guide Tube
(a)If required, bend new guide tube section as necessary to fit airplane
R structure.
NOTE : Tube must be bent cold by hand. Bending must only be done on correct size bending former. Force must only be applied at positions "A" and "B" to prevent kinking. After each bending operation insert cable in tube to check for possible kinks. Minimum bend radius of tube is 60 mm (2.36 in.).
(b)Position clamps (98) on guide tube (99).
(c)Apply thread locking compound (Material No. 08-007) to threads of nuts (93) and install with new sleeves (94) on guide tube (99).
(d)Push end of guide tube (99) fully into bulkhead unions (92).
(e)Install nuts (93).
NOTE : Do not fully tighten nuts at this stage.
(f)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (95) and install with washers (96) through clamps (98). Position and tighten new nuts (97).
(g)TORQUE nuts (93) to between 0.6 and 0.8 m.daN (53.1 and 90.4 lbf.in.). If required, safety nuts with lockwire.
(11)Hydraulic Damper
(a)Apply anti-corrosion compound (Material No. 05-002) to the threads of the screws (154).
(b)Put the hydraulic damper (152) in the installation position.
(c)Push the door sill lock handle in the up position.
(d)Connect the hydraulic damper (152) to the cable sector (155) and to the traverse (150).
(e)Connect the traverse (151) to the hydraulic damper (152).
(f)Install the screws (154) and the washers (153).
(g)Apply corrosion-preventive lubricant (Material No. 05-027) to the attachment elements.
(h)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements.
(12)Actuating Unit and Manual Release Cable
(a)Apply a layer of sealant (Material No. 09-016) to the contact surface of the actuating unit (84).
(b)Apply anti-corrosion compound (Material No. 05-002) to the threads of screws (83).
(c)Apply grease (Material No. 04-004) lightly to manual release cable (82) and install manual release cable (82) through guide tube and pulley.
(d)Position actuating unit (84) and connect manual release cable (82). Safety with cable retainer (81) and screw (80). Safety screw (80) with lacquer.
(e)Install actuating unit (84) with screws (83). Push door sill lock handle to upper position.
(f)Pull manual release cable (82) taut and install through thimble (109) to retainer (105).
(g)Install bolts (106) with washers (107) and nuts (108). TORQUE nuts to 0.6 and 0.8 m.daN (53.1 and 90.4 lbf.in.).
(h)Adjust turnbuckle (110) so that a clearance of 1 mm (0.04 in.) is obtained at bellcrank input lever.

(i)Apply corrosion preventive lubricant (Material No. 05-027) to the attaching parts.
(j)Apply corrosion preventive (Material No. 05-005) to the material applied to the attaching parts and to the edges of the actuating unit (84).
(k)Remove warning notice from cargo loading system control panel.
(l)Perform test (Ref. step E).

E. Test - FWD and/or AFT Cargo Compartment(s)
(Ref. Fig. 408, )
Initial conditions:
- Make sure that the red marks at the pulley housings (1) and (2) align to each other,
- If not, adjust the pulley housings (1) and (2),
- Correct electrical power supply (115 V AC, 28 V DC),
- Safety clips and tags removed and circuit breakers 1MY, 6MY, 7GX, 23GX, 501MY and 506MY closed,
- Rigging pin removed from door sill latch,
- Install mounting cover at forward door sill latch,
- Door Actuator safety lock(s) removed from door actuator(s).

| ACTION | RESULT |
|---|---|
| 1. On cargo loading system control panel<br>- Pull down and hold SILL LOCK handle. | In door sill area<br>- Overridable Y-latch of door sill latches must be fully lowered. |
| NOTE : If latches are not fully lowered or lower asymetrically, adjust as required (Ref. 25-52-41, P. Block 401). | |
| CAUTION : IF DOOR STARTS TO CLOSE, IMMEDIATELY STOP OPERATION AND RECTIFY FAULT BEFORE PROCEEDING WITH TEST. | |
| 2. On door control panel<br>- Operate door selector to close cargo compartment door. | Door must not close. |
| 3. On cargo loading system control panel<br>- Release SILL LOCK handle. | In door sill area<br>- Overridable Y-latch of door sill latches must be fully raised within approximately 8 sec. |

F. Close-Up

** For FWD and AFT Cargo Compartments

(1) Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(2) Display warning notice prohibiting operation of the cargo loading system on loading system control panel.
(3) Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(4) Install joystick complete with mounting plate (Ref. 25-52-71, P. Block 401).
(5) Install ball mats (Ref. 25-52-22, P. Block 401).
(6) Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(7) Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(8) De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(9) Remove warning notice.
(10) Remove access platform.

## OVERRIDABLE YZ-LATCH - REMOVAL/INSTALLATION

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Wooden or Plastic Scraper |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| H. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| I. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 53-10-29, P. Block 401 | FWD Cargo Compartment Floor Panels |
| - 53-10-33, P. Block 401 | AFT Cargo Compartment Floor Panels |

2. Procedure

R **ON A/C 101-104,

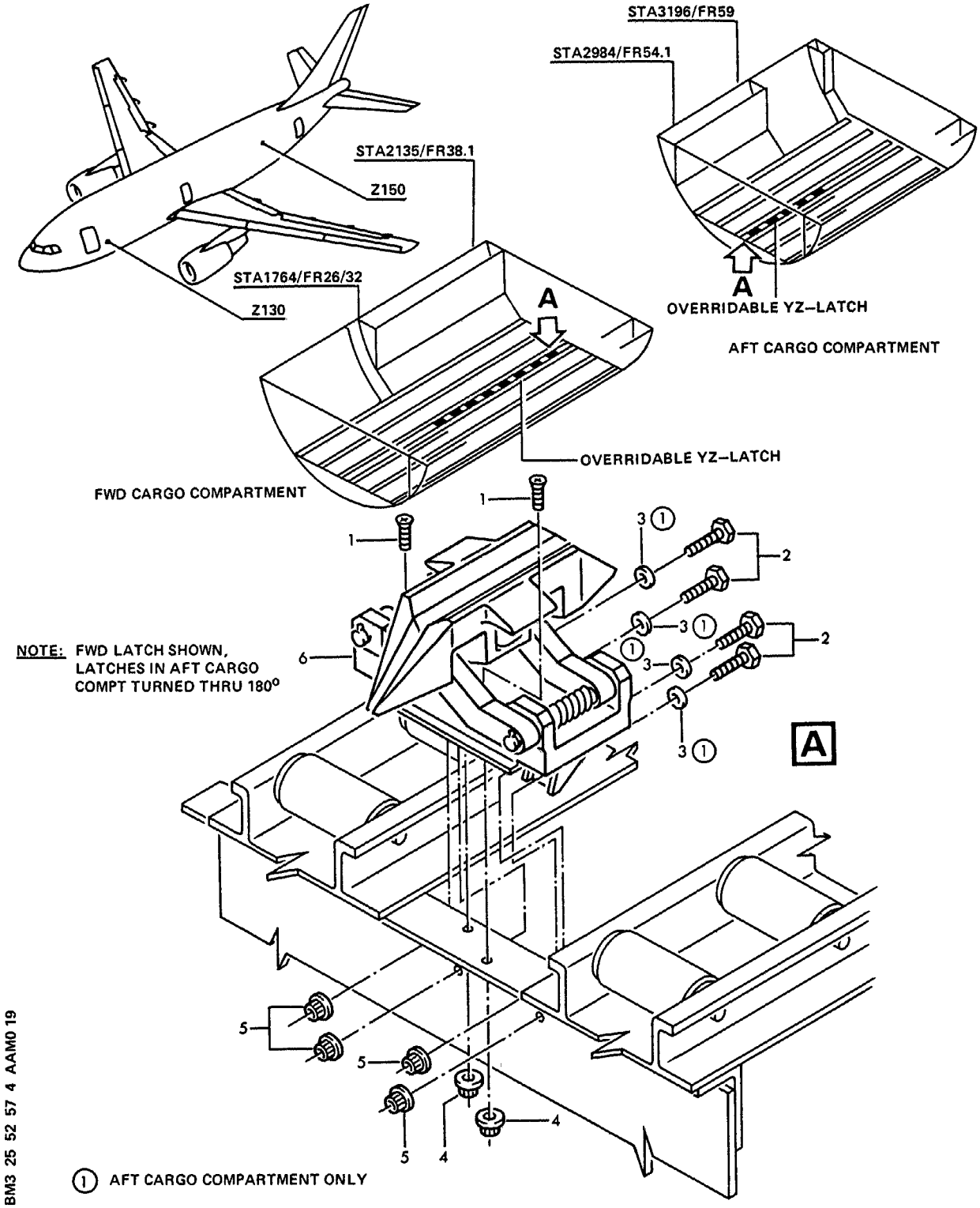
(Ref. Fig. 401)

R **ON A/C 001-100, 105-200,

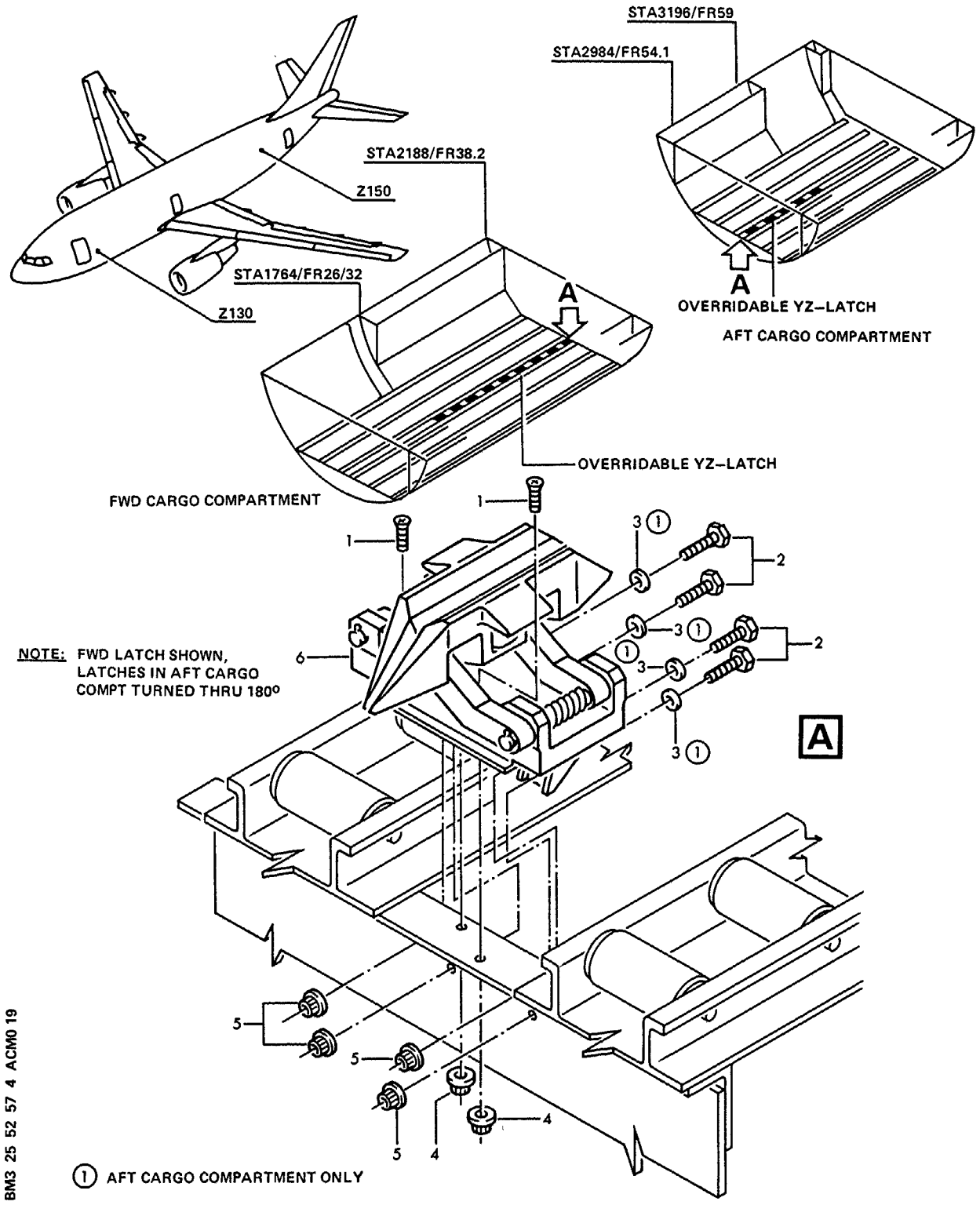
(Ref. Fig. 402)

**ON A/C ALL

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of the cargo loading system on cargo loading system control panel.
(7)If required, remove floor panels to give access to work area (Ref. 53-10-59, P. Block 401) and/or (Ref. 53-10-33, P. Block 401).
(8)Remove cover plates between center roller tracks forward and aft of latch




Overridable YZ-Latch
Figure 401




Overridable YZ-Latch
Figure 402

to be removed.

(9)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal

** For FWD Cargo Compartment

(1)Remove nuts (4),(5), screws (1) and bolts (2). Discard nuts (4),(5).
(2)Remove latch (6) from cross beam.

** For AFT Cargo Compartment

(1)Remove nuts (4),(5), washers (3), screws (1) and bolts (2). Discard nuts (4),(5).
(2)Remove latch (6) from cross beam.

** For FWD and AFT Cargo Compartments

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove the old sealant from the latch (6) and from the cross beam with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.
(2)Clean and check the work area before installation of the new component.

D. Installation

(1)Apply a layer of sealant (Material No. 09-016) to the contact surfaces of the latch (6).
(2)Apply anti-corrosion compound (Material No. 05-002) to threads and shafts of bolts (2) and screws (1).
(3)Position latch (6) on cross beam.

** For FWD Cargo Compartment

(4)Install bolts (2), nuts (5), screws (1) and nuts (4).

** For AFT Cargo Compartment

(5)Install bolts (2), washer (3), nuts (5), screws (1) and nuts (4).

** For FWD and AFT Cargo Compartments

(6)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.
(7)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the overridable YZ-latch.

E. Test

| ACTION | RESULT |
|---|---|
| 1. Press down on latch. | Latch lowers and is positioned below level of roller track. |
| 2. Release latch. | Latch raises under spring tension into raised position. |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install floor panels (Ref. 53-10-29, P. Block 401 and/or 53-10-33, P. Block 401).
(3)Install cover plates between center roller tracks.
(4)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 501MY, 506MY, 7GX and 23GX.
(5)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(6)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(7)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(8)Remove warning notice.
(9)Remove access platform.

## RETRACTABLE CONTAINER GUIDE - REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Cotter Pins |
| E. | Wooden or Plastic Scraper |
| F. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| G. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| H. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| I. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

### 2. Procedure

A. Job Set-Up

(1)Position access platform.

(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(3)Make certain that electronics racks ventilation is correct.

(4)Open FWD cargo compartment door (Ref. 52-30-00, P. Block 1).

(5)Install door actuator safety lock to FWD cargo compartment door actuator (Ref. 52-30-00, P. Block 301).

(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.

(7)Remove ball mats in area of retractable container guide to be removed (Ref. 25-52-22, P. Block 401).

(8)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal

(Ref. Fig. 401)

(1)Remove cotter pins (3), spindles (4) and washers (2). Discard cotter pins (3).

(2)Lift and remove retractable container guide (1) from roller track (5).

C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Remove the old sealant from the retractable container guide (1) and from the roller track with cleaning agent (Material No. 11-003) and a wooden or plastic scraper.

D. Installation (Ref. Fig. 401)

(1)Apply a layer of sealant (Material No. 09-016) to the contact surfaces of the retractable container guide (1).

(2)Position retractable container guide (1) in roller track (5).

(3)Install attachment pins (4) with washers (2) and safety with new cotter pins (3).

(4)Apply corrosion preventive lubricant (Material No. 05-027) to the attachment elements.

(5)Apply corrosion preventive (Material No. 05-005) to the material applied to the attachment elements and to the edges of the retractable container guide (1).

E. Test

| ACTION | RESULT |
|---|---|
| 1. Raise latch elements of retractable container guides. | Retractable container guides lock in raised position. |
| 2. Lower latch elements of retractable container guides. | Retractable container guides lower below level of roller. |

F. Close-Up

(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.

(2)Install ball mats (Ref. 25-52-22, P. Block 401).

(3)Remove safety clips and tags and close circuit breakers 1MY, 6MY, 7GX and 23GX.

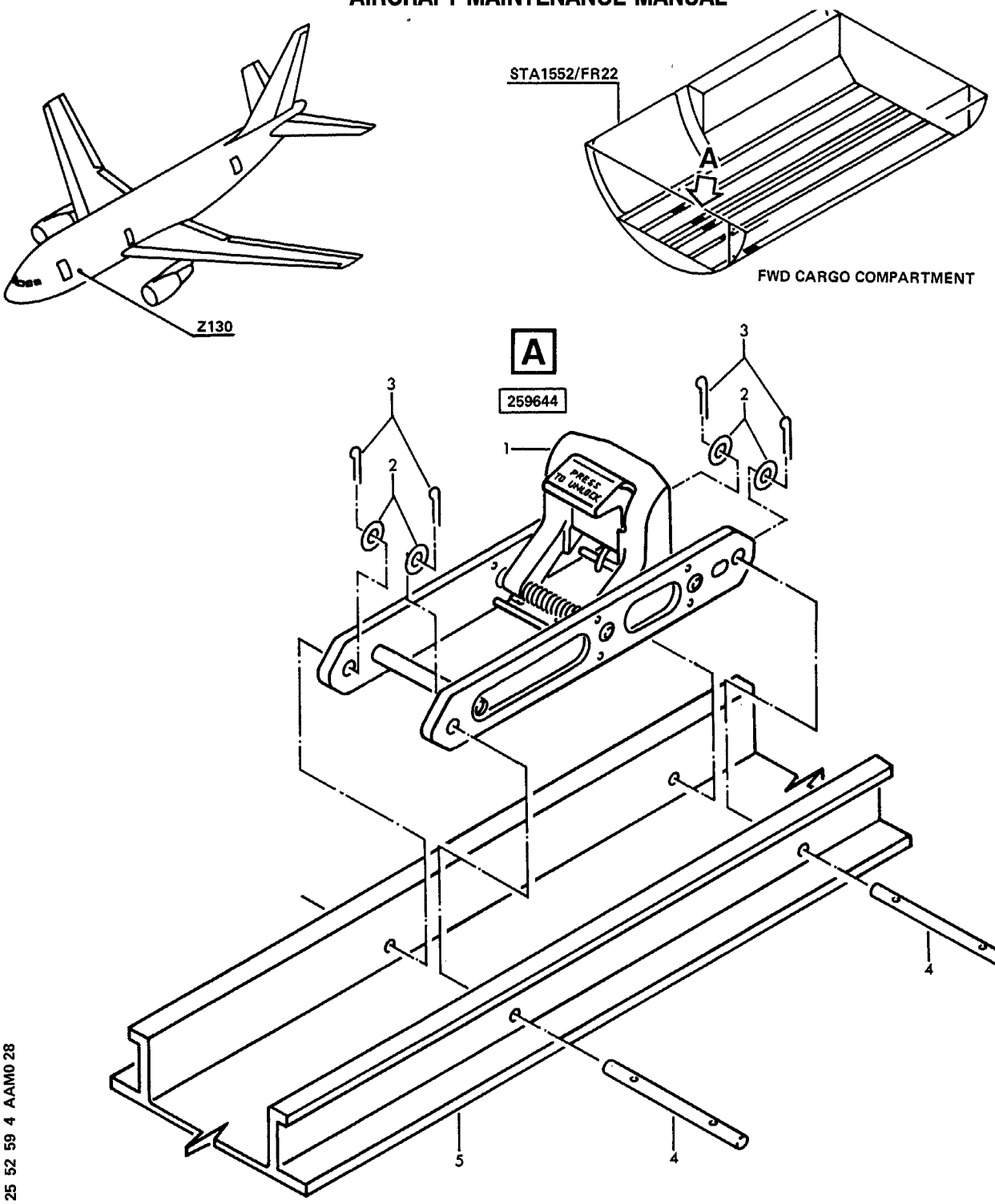
(4)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).

(5)Close FWD cargo compartment door (Ref. 52-30-00, P. Block 1).

(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

(7)Remove warning notice.

(8)Remove access platform.




Retractable Container Guide
Figure 401

## CONTROL BOX 10MY-1 (10MY-2) - REMOVAL/INSTALLATION

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. Material No. 05-002 | Special Materials (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-00, P. Block 501 | Semi-Automatic Cargo Loading |
| - 25-54-10, P. Block 201 | FWD Cargo Compartment Linings |
| - 25-55-10, P. Block 201 | AFT Cargo Compartment Linings |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

### 2. Procedure

A. Job Set-Up
(1) Position access platform.
(2) Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3) Make certain that electronics racks ventilation is correct.
(4) Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5) Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6) Display warning notice prohibiting operation of cargo loading system on loading system control panel.
(7) Remove FWD cargo compartment ceiling panel between STA1498/F and STA1605/F , or AFT cargo compartment ceiling panel between STA3991/FR60 and STA4044/FR61 as required (Ref. 25-54-10, P. Block 201 or 25-55-10, P. Block 201).
(8) Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartments

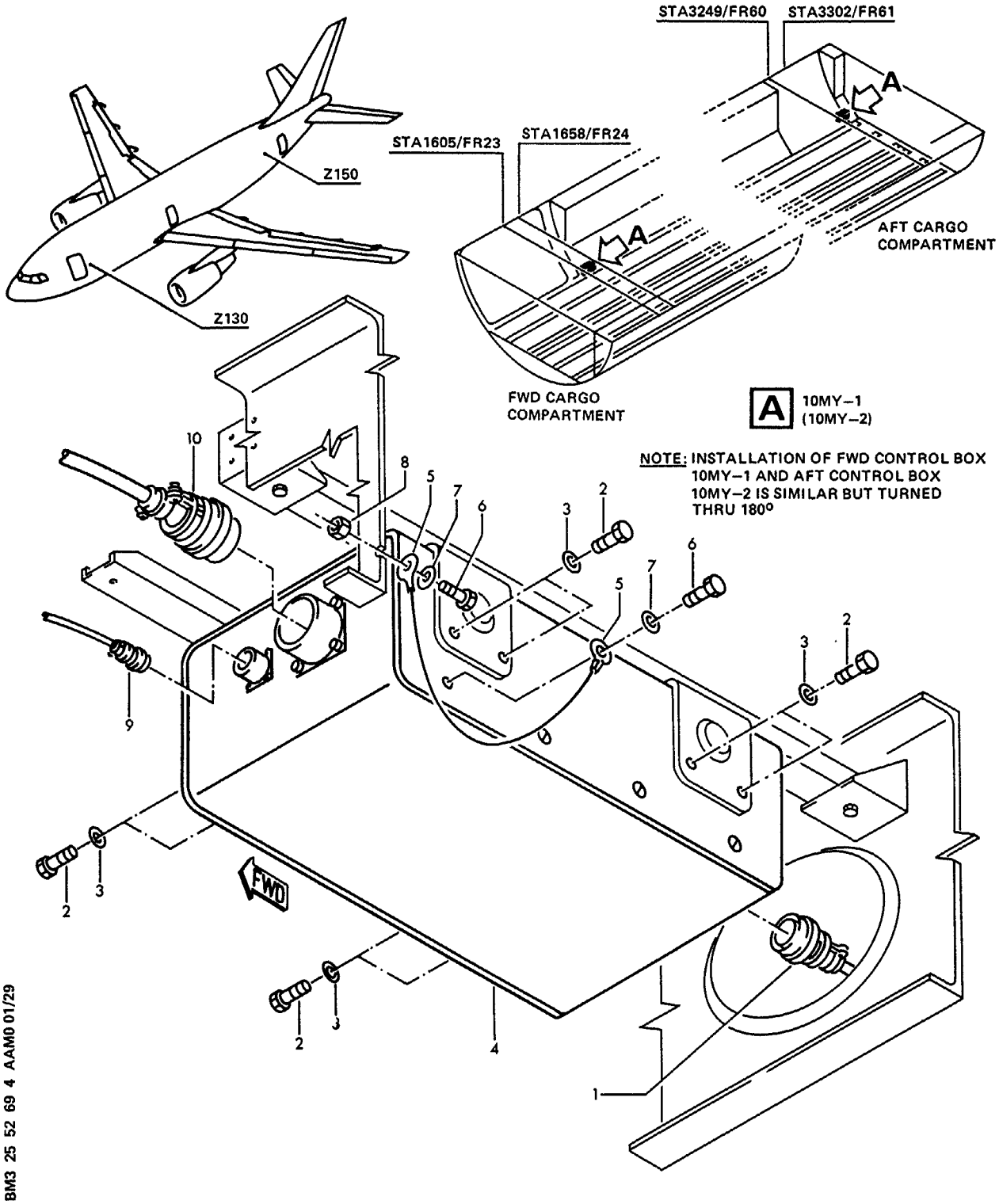
B. Removal
(Ref. Fig. 401)
(1)Disconnect and blank off electrical connectors 10MY1-A (10MY2-A) (1), 10MY1-C (10MY2-C) (9) and 10MY1-B (10MY2-B) (10).
(2)Remove nut (8), screw (6), washer (7) and disconnect bonding strap (5).
(3)Remove screws (2), washers (3) and control box (4).

C. Preparation for Installation
(1)Clean and check component interface and/or component adjacent area.

D. Installation (Ref. Fig. 401)
(1)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (2).
(2)Position control box (4) and install screws (2) and washers (3).
(3)Prepare electrical bonding area (Ref. 20-28-11, P. Block 1).
(4)Connect bonding strap (5) to structure using screw (6), washer (7) and nut (8).
(5)Remove blanks and connect electrical connectors 10MY1-A (10MY2-A) (1), 10MY1-C (10MY2-C) (9) and 10MY1-B (10MY2-B) (10).

E. Test
(1)Remove safety clips and tags and close circuit breakers 30XN, 31XN, 1MY and 6MY for the FWD compartment and/or 30XN, 31XN, 501MY and 506MY for the AFT cargo compartment.
(2)Carry out functional test of semi-automatic cargo loading system in FWD and/or AFT cargo compartment(s) (Ref. 25-52-00, P. Block 501).

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ceiling panels (Ref. 25-54-10, P. Block 201 or 25-55-10, P. Block 201).
(3)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).




Control Box - FWD and AFT Cargo Compartment
Figure 401

(7)Remove warning notice.
(8)Remove access platform.

JOYSTICK 259640 (259655) - REMOVAL/INSTALLATION

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

A. Job Set-Up
(1)Position access platform(s).
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics racks ventilation is correct.
(4)Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open access panel for cargo loading system control panel.
(8)Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC-HYD PUMP | 23GX | GEN2/B08 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

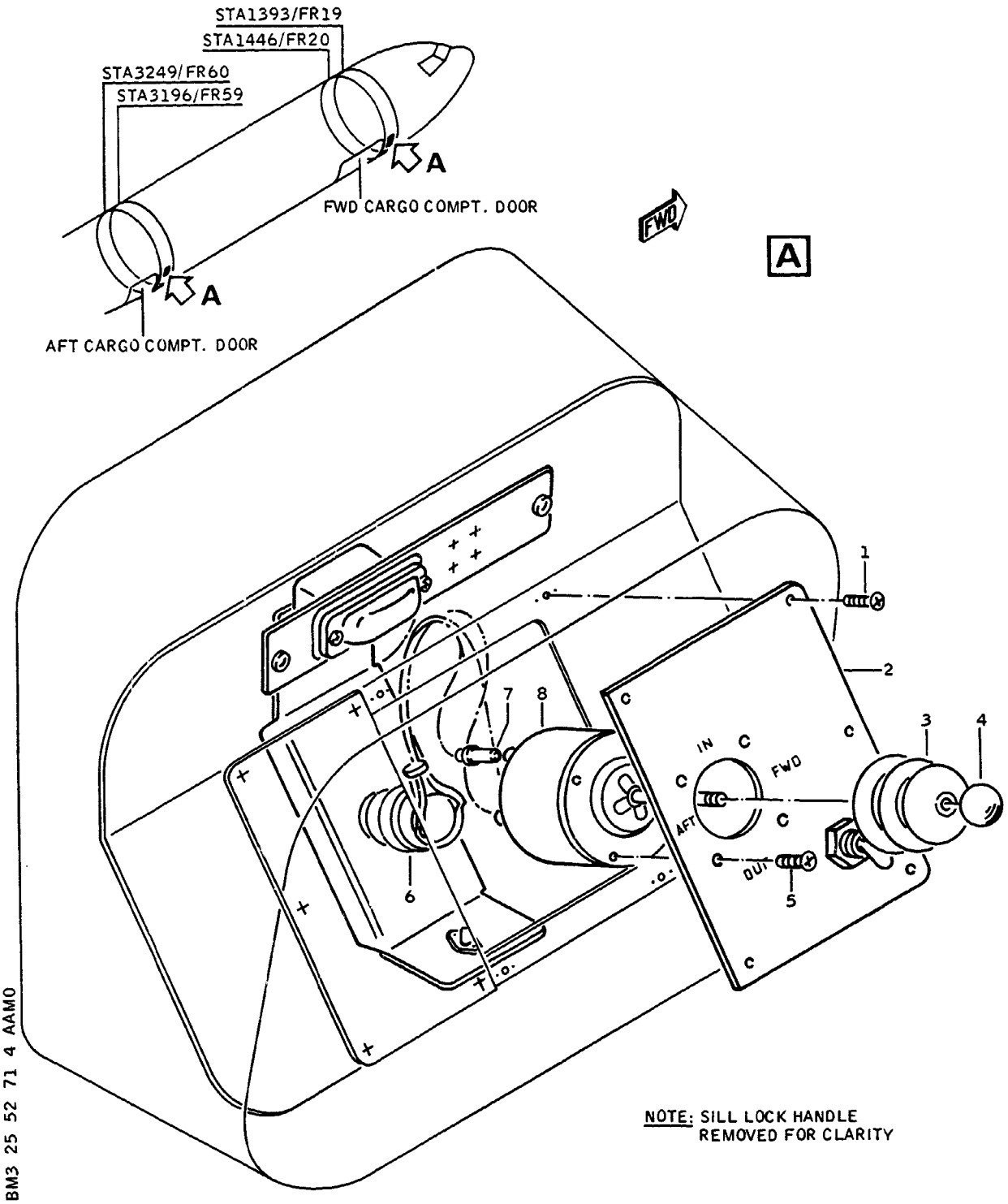
** For FWD and AFT Cargo Compartments

B. Removal
(Ref. Fig. 401)
(1)Remove screws (1).
(2)Withdraw mounting plate (2), disconnect electrical connector (6) and remove mounting plate (2) complete with joystick (8).
(3)Blank off electrical connectors.
(4)Unscrew and remove joystick knob (4).
(5)Remove gaiter (3).
(6)Disconnect wiring (7) from joystick (8).
NOTE : Record connections to facilitate installation.
(7)Remove screws (5), and remove joystick (8).

C. Preparation for Installation
(1)Prepare bonding surfaces (Ref. 20-28-11, P. Block 1).
(2)Clean and check work area before installation of the new component.

D. Installation
(Ref. Fig. 401)
R (1)Put the joystick (8) in position on the mounting plate (2).
R (2)Apply bonding and adhesive compounds (Material No. 08-007B) to contact areas on the mounting flange of the joystick (8) and below the threaded area of the joystick lever.
R (3)Install the screws (5) in the mounting plate (2) and the joystick (8).
R (4)Install the rubber bellow (3) on the lever of the joystick (8) as follows:
R - apply pressure at the bonding area to make sure that the adhesion is correct,
R - be very careful at the area of the mounting flange and make sure that the bellow is positioned correctly in the recess of the mounting.
R (5)Apply bonding and adhesive compounds (Material No. 08-007B) to the thread of the joystick lever.
R (6)Install the ball knob (4) on the lever of the joystick (8).
R (7)Connect the wiring (7) to the joystick (8).
R (8)Remove the blanks from the electrical connectors and connect the electrical connector (6).
R (9)Locate the mounting plate (2) on the structure and install the screws (1).
R (10)Remove circuit breaker safety clips and tags and close circuit breakers 1MY, 6MY and/or 501MY and 506MY.

E. Test
Initial conditions:
- Correct electrical power supply (115 V AC, 28 V DC).




Joystick - FWD and AFT Cargo Compartment
Figure 401

- Safety clips and tags removed and circuit breakers 1MY, 6MY and/or 501MY and 506MY closed.
- FWD and/or AFT cargo compartment door(s) opened and door actuator safety lock(s) installed.
- All container latches and pallet latches lowered.

| ACTION | RESULT |
|---|---|
| 1. In door sill area<br>- Lower manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light comes on. |
| 2. On cargo loading system control panel<br>- Set POWER switch to ON. | Cargo conveyance system is ready for operation. |
| 3. Select joystick to FWD, AFT, IN and OUT in turn. | Longitudinal and transverse power drive units run in directions selected by joystick. |
| 4. Centralize joystick. | Power drive units stop. |
| 5. Depress centralized joystick. | Transverse power drive units run in opposite direction (RH outwards, LH inwards). |
| 6. Release joystick. | Transverse power drive units stop. |
| 7. Set POWER switch to OFF. | Cargo conveyance system is de-energized. |
| 8. In door sill area<br>- Raise manually-operated YZ-latch of door sill latches. | On cargo loading system control panel<br>- Control panel light goes off. |

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(3)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(4)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(6)Remove warning notice.
(7)Remove access platform(s).

# CIRCUIT BREAKER PANEL 921VU (923VU) - REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Lockwire, Corrosion-Resistant Steel, Dia. 0.63 mm (0.025 in.) |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-00, P. Block 501 | Semi-Automatic Cargo Loading |
| - 25-54-10, P. Block 201 | FWD Cargo Compartment Linings |
| - 25-55-10, P. Block 201 | AFT Cargo Compartment Linings |
| - 33-34-00, P. Block 501 | FWD-AFT-BULK Cargo Compartment Lighting |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

## 2. Procedure

A. Job Set-Up
(1) Position access platform.
(2) Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3) Make certain that electronics racks ventilation is correct.
(4) Open FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(5) Install door actuator safety lock(s) to FWD and/or AFT cargo compartment door actuator(s) (Ref. 52-30-00, P. Block 301).
(6) Display warning notice prohibiting operation of the cargo loading system on loading system control panel.
(7) Remove FWD cargo compartment ceiling panel between STA1498/FR21 and STA1605/FR23, or AFT cargo compartment ceiling panel between STA3991/FR60 and STA4044/FR61 as required (Ref. 25-54-10, P. Block 201 or 25-55-10, P. Block 201).
(8) Open, safety and tag the following circuit breakers:

** For FWD Cargo Compartment

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 101VU | CLS GND SERVICE BUS BAR | 30XN | APU/A03 |

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 101VU | CLS GND SERVICE BUS BAR | 31XN | GEN2/C20 |
| 106VU | GRND SERVICE BUS BAR 505PP | 5PN | A06 |
| 106VU | FLIGHT GROUND BUS BAR 603PP | 8PN | A04 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For AFT Cargo Compartment

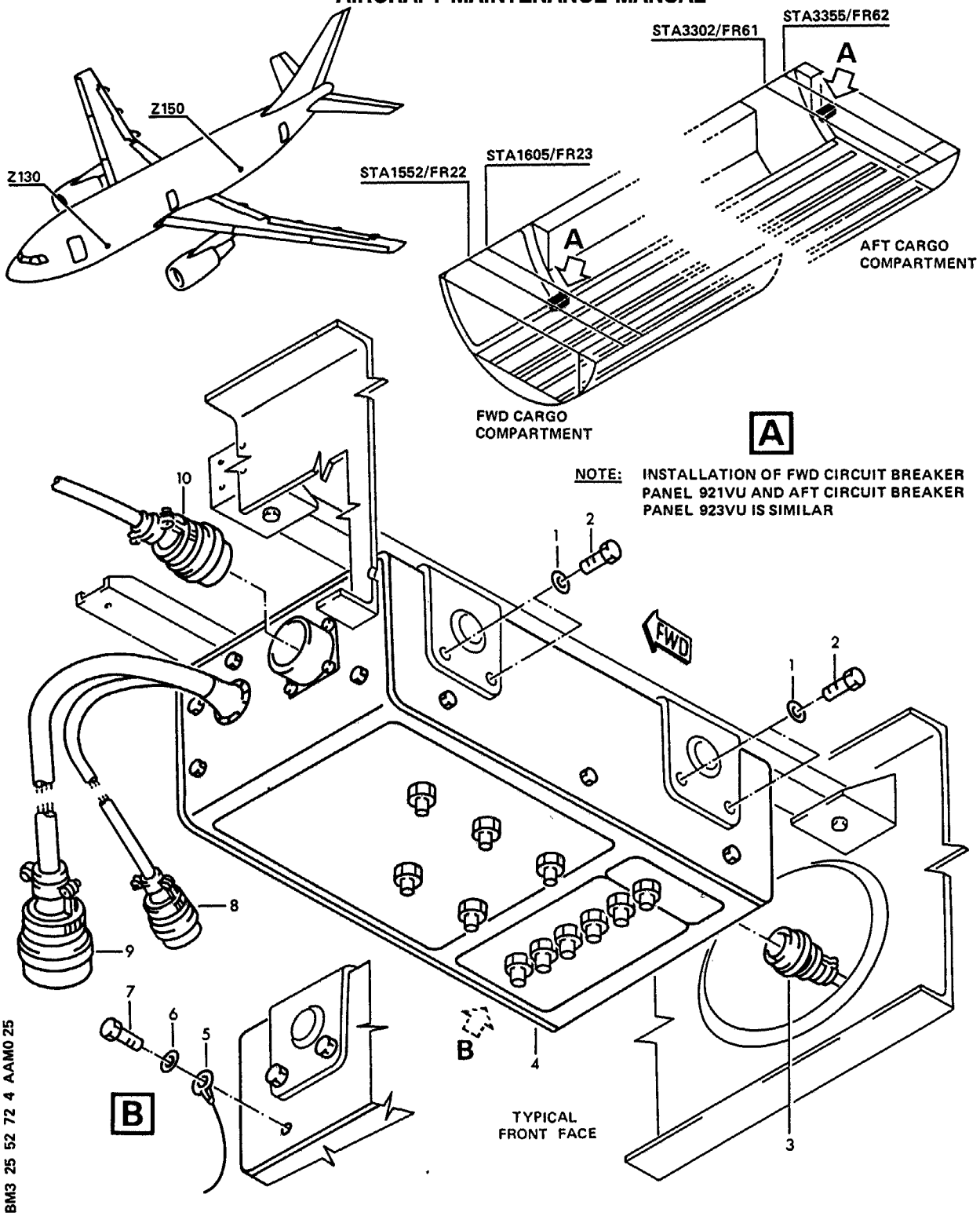
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 923VU | MAIN FUSE | 501MY | |
| 923VU | CONTROL FUSE | 506MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 101VU | CLS GND SERVICE BUS BAR | 30XN | APU/A03 |
| 101VU | CLS GND SERVICE BUS BAR | 31XN | GEN2/C20 |
| 106VU | 503PP GRND SERVICE BUS BAR | 3PN | A07 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

** For FWD and AFT Cargo Compartments

B. Removal
(Ref. Fig. 401)
(1)Disconnect and blank electrical connectors 10MY1-A (10MY2-A) (9), 10MY1-C (10MY2-C) (8) from control box 10MY-1 (10MY2) and 4000VC-A (4001VC-A) (10) and 4004VC-A (4003VC-A) (3) from circuit breaker panel 921VU (923VU) (4).
(2)Remove screw (7), washer (6) and disconnect bonding jumper (5).
(3)Remove screws (2), washers (1) and circuit breaker panel (4).

C. Preparation for Installation
(1)Clean and check component interface and/or component adjacent area.
(2)Prepare electrical bonding area (Ref. 20-28-11, P. Block 1).

D. Installation (Ref. Fig. 401)
(1)Apply anti-corrosion compound (Material No. 05-002) to threads and shafts of screws (2),(7).
(2)Position circuit breaker panel (4) and install screws (2) and washers (1).
(3)Connect bonding jumper (5) to circuit breaker panel (4) using screw (7), and washer (6).
(4)Remove blanks and connect electrical connectors 10MY1-A (10MY2-A) (9), 10MY1-C (10MY2-C) (8), 4000VC-A (4001VC-A) (10) and 4004VC-A (4003VC-A) (3) to circuit breaker panel (4).
R (5)Safety electrical connectors 4004VC-A (4003VC-A) (3) and 10MY1-A
R (10MY2-A) (9) with lockwire.




Circuit Breaker Panel 921VU (923VU)
Figure 401

E. Test
(1)Remove safety clips and tags and close circuit breakers 30XN, 31XN, 5PN and 8PN for FWD cargo compartment and/or 30XN, 31XN and 3PN for AFT cargo compartment.
(2)Carry out functional test of semi-automatic cargo loading system in FWD and/or AFT cargo compartment (Ref. 25-52-00, P. Block 501).
(3)Carry out functional test of FWD-AFT-BULK Cargo Compartment Lighting (Ref. 33-34-00, P. Block 501).

F. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ceiling panels (Ref. 25-54-10, P. Block 201 or 25-55-10, P. Block 201).
(3)Remove safety clips and tags and close circuit breakers 7GX and 23GX.
(4)Remove door actuator safety lock(s) (Ref. 52-30-00, P. Block 301).
(5)Close FWD and/or AFT cargo compartment door(s) (Ref. 52-30-00, P. Block 1).
(6)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(7)Remove warning notice.
(8)Remove access platform.

# FWD CARGO COMPARTMENT - DESCRIPTION AND OPERATION

## 1. General

A. The FWD cargo compartment is located between avionics compartment partition STA1446/FR20 and the FWD cargo compartment partition STA2506/FR38.2.

R The compartment is pressure sealed. Pressure leaks through the compartment
R are not permitted. This would result in a decrease in the performance
R of the fire extinguishing system.
The FWD cargo compartment is equipped with an electrically powered semi-automatic cargo loading system for powered conveyance of approved air freight transport units (containers, pallets). Access to the compartment is through a hydraulically operated cargo compartment door, opening to the outside and fitted on the right hand side of the fuselage between STA1454/FR20A and STA1729/FR25A.

B. The cargo compartment floor consists of removable panels, manufactured of honeycomb and laminates. A drain system is installed under the floor to collect rain water and accidentally spilled liquids. Spillage is collected at drain points and dumped overboard automatically. The compartment paneling consists of sidewall and ceiling panels and covers the fuselage entire structure. The paneling is attached directly to the ceiling and side structure. The ceiling panels have cut-outs that fit the lighting, smoke detectors, and extinguisher nozzles to ease maintenance accessibility to these components.

C. To safeguard the aircraft structure against the effects of rapid decompression, the compartment is fitted with a system of decompression panels located in the partitions and sidewalls (Ref. 25-66-20).

## 2. Component Location

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| 1 | PARTITION PANELS FR20 | | 131/132 | 811 | 53-10-53 |
| 132AZ | RH AVIONIC COMPARTMENT DOOR | | 132 | 811 | 53-10-53 |
| 2 | CEILING PANELS | | 132 | 811 | 25-54-10 |
| 3 | SIDEWALL PANELS | | 132 | 811 | 25-54-10 |
| 4 | PARTITION PANELS FR38.2 | | 131/132 | 811 | 53-10-55 |
| 5 | PRESSURE COMPENSATING VALVE | 131SW | 131 | 811 | 53-10-50 |
| 6 | CEILING PANELS | | 131 | 811 | 25-54-10 |
| 7 | SIDEWALL PANELS | | 131 | 811 | 25-54-10 |
| 131AZ | LH AVIONIC COMPARTMENT DOOR | | 131 | 811 | 53-10-53 |
| 8 | SIDEWALL- AND PARTITION DECOMPRESSION PANELS | | 131/132 | 811 | 25-66-20 |

3. Description and Operation

**ON A/C 001-005, 101-200,

(Ref. Fig. 001)

**ON A/C 006-100,

(Ref. Fig. 002)

**ON A/C ALL

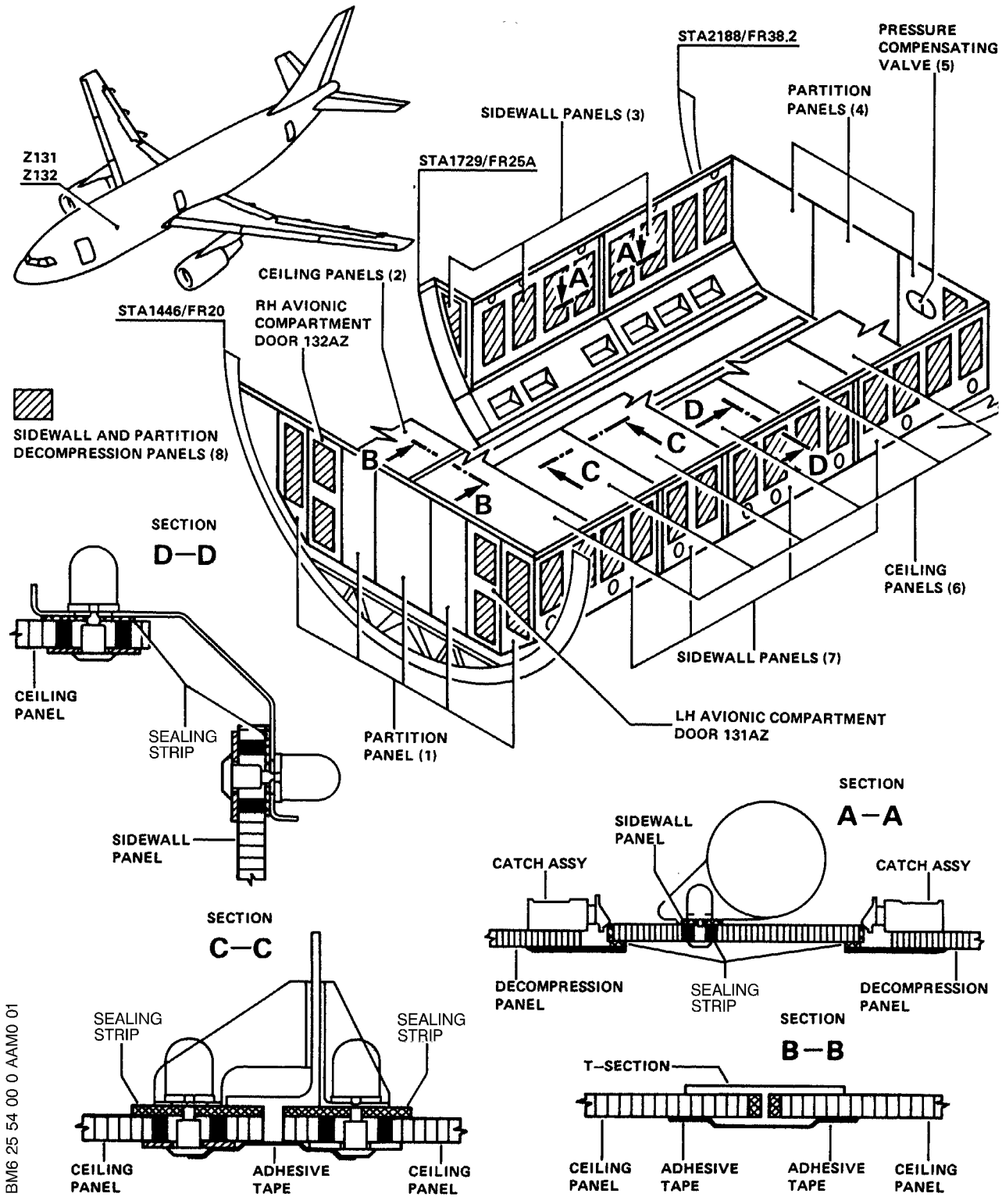
A. Ceiling Panels
The ceiling panels in the FWD cargo compartment are attached to the ceiling structure between STA1446/FR20 and STA2506/FR38.2. The panels are sandwich panels, made of a honeycomb core and fiberglass reinforced resin on both sides. The panels can be removed and installed independently. The ceiling panels are inserted in a T-section along the aircraft centerline and then secured to the
R structure with quick-release fasteners. Sealing strips are fixed to the panels to seal any gaps between individual panels and the mounting surfaces of the ceiling structure. Adhesive tape is used to seal gaps between the individual ceiling panels.
R Sealing strips and adhesive tape are also used to ensure the pressure
R tightness of the cargo compartment for an effective performance of the
R fire extinguishing system.

B. Sidewall Panels
The upper and lower sidewall panels in the FWD cargo compartment extend from STA1446/FR20 to STA2506/FR38.2. The panels are sandwich panels, made of a honeycomb core and fiberglass reinforced resin on
R both sides. The panels can be removed and installed independently. The sidewall panel attachment and sealing to the structure is similar to the ceiling panel attachment.

C. Partition and Sidewall Decompression Panels
Decompression panels are incorporated in the partition panels and the LH and RH sidewall panels. The decompression panels are installed in cut-outs and secured with spring-loaded catch assemblies (Ref. 25-66-00).

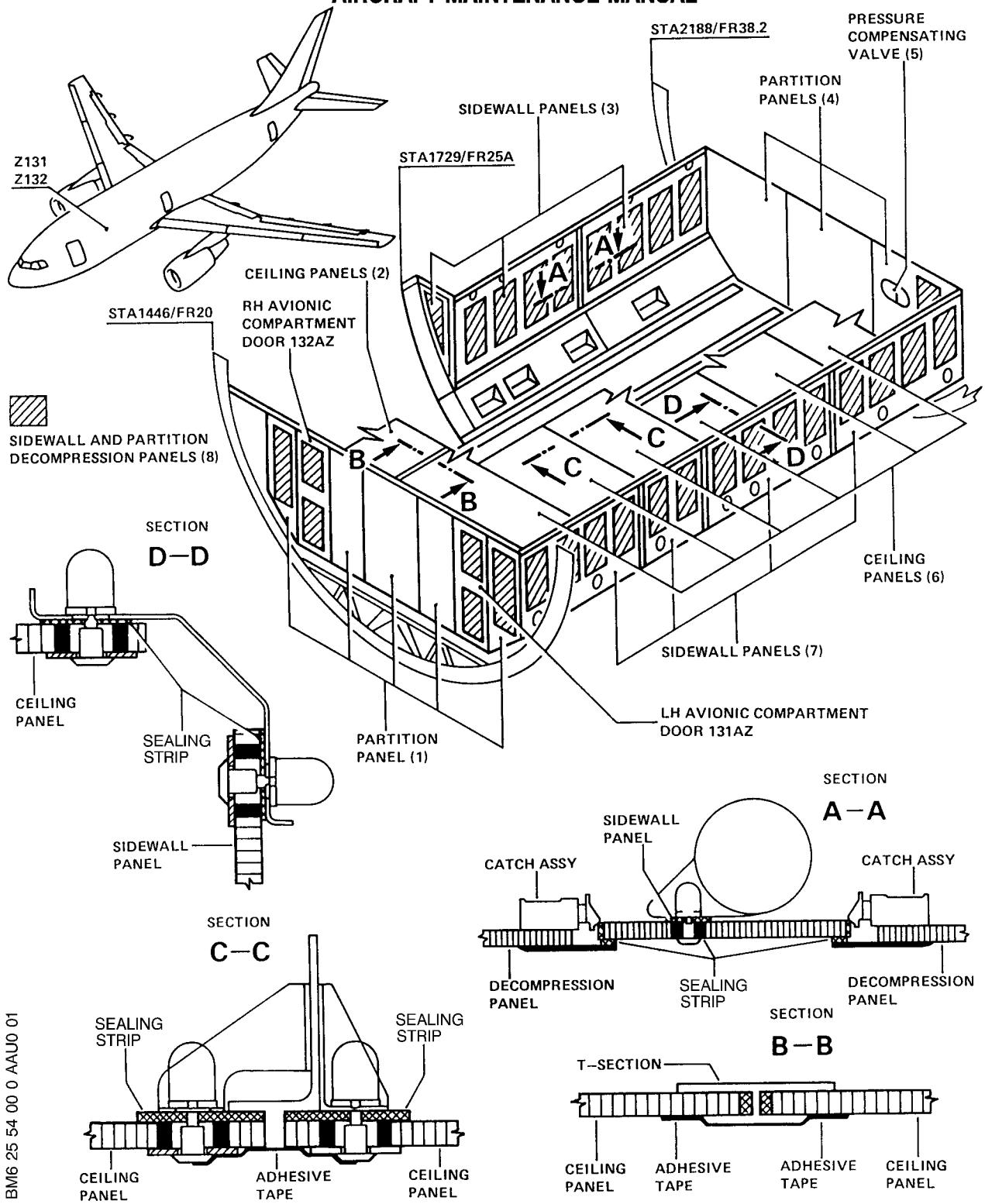
D. Avionics Compartment and FWD Cargo Compartment Partition (Ref. 53-10-50).

E. Cargo Loading System (Ref. 25-52-00).




Typical Arrangement of FWD Cargo Compartment
Figure 001

R




Typical Arrangement of FWD Cargo Compartment
Figure 002

R

NOTE : For repair of cargo compartment linings (Ref. 25-00-00, P. Block 801).

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. Material No. 08-060 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| D. Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| E. Material No. 08-018 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| F. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| G. Material No. 11-002 | Cleaning Agents (Ref. 20-31-00) |
| H. Material No. 09-030 | Sealants (Ref. 20-31-00) |
| Referenced Procedures | |
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 25-00-00, P. Block 801 | Equipment and Furnishings |

2. Procedure

**ON A/C 001-005, 101-200,

(Ref. Fig. 201)

**ON A/C 006-100,

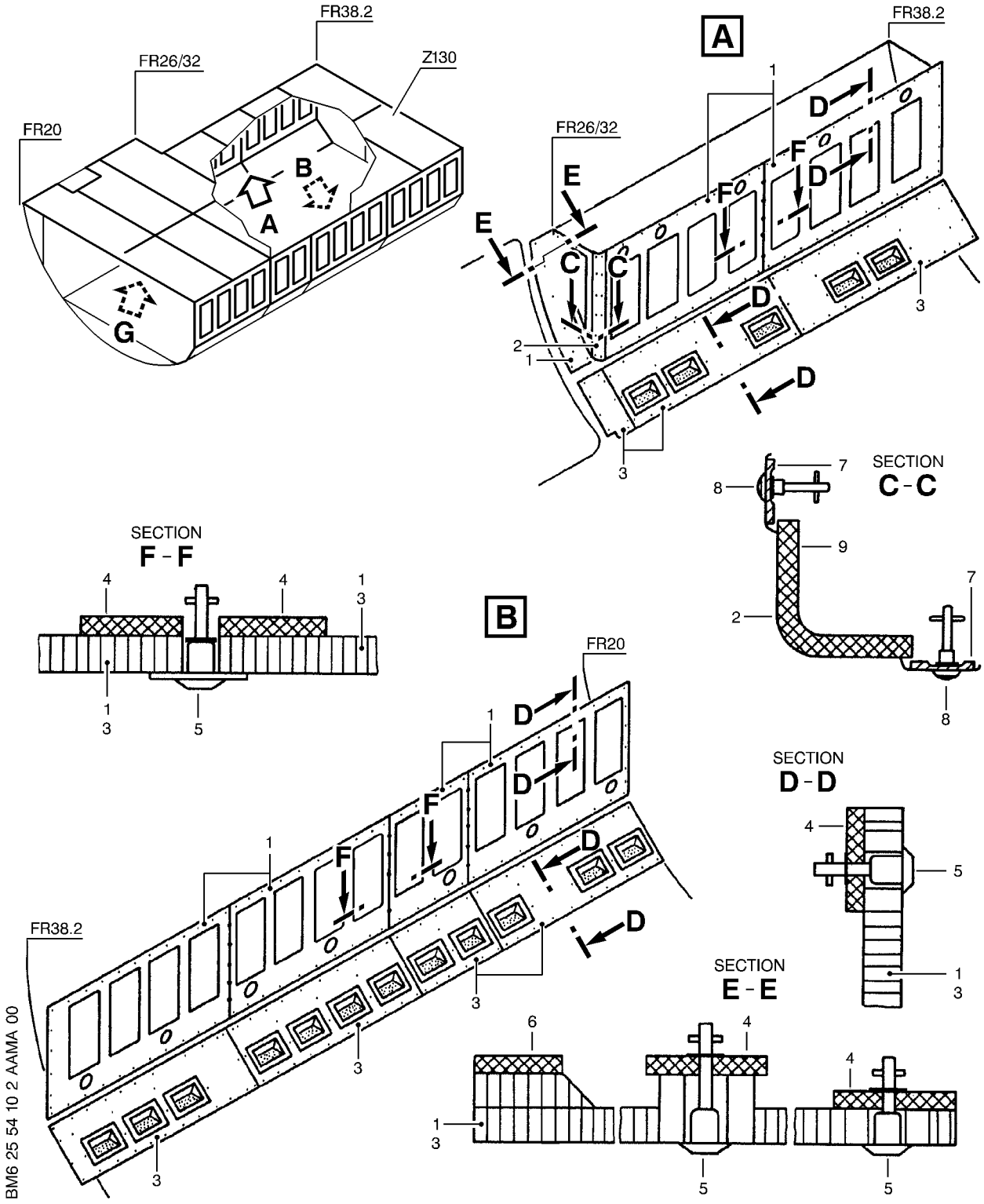
(Ref. Fig. 202)

**ON A/C ALL

A. Job Set-Up
(1)Position access platform.
(2)Open FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(3)Install door actuator safety lock on FWD cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(4)Open, safety and tag the following circuit breaker:

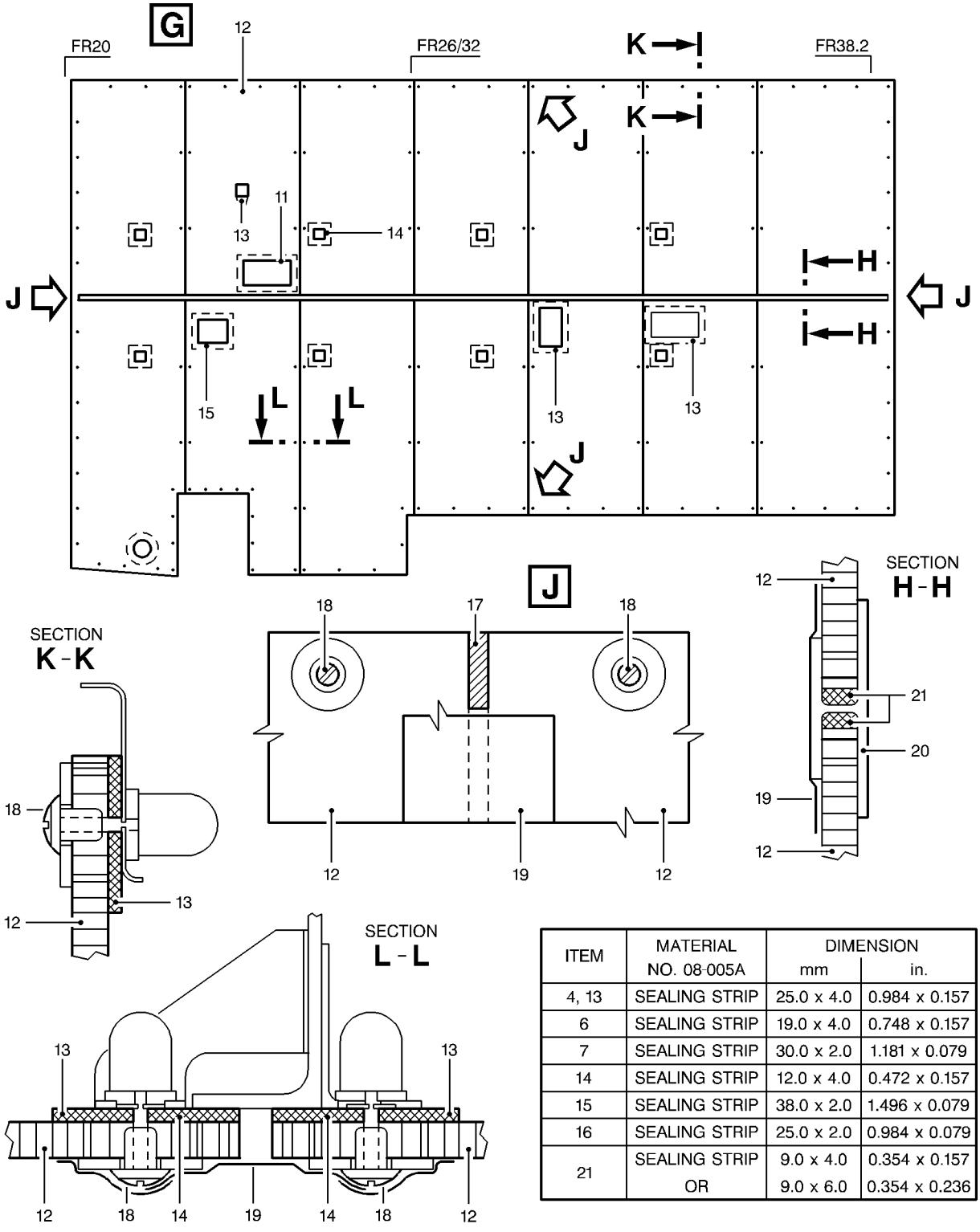
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

B. Removal




FWD Cargo Compartment Sidewall and Ceiling Panels (TYPICAL)
(Sheet 1 of 2)
Figure 201

R




| ITEM | MATERIAL NO. 08-005A | DIMENSION mm | DIMENSION in. |
|---|---|---|---|
| 4, 13 | SEALING STRIP | 25.0 x 4.0 | 0.984 x 0.157 |
| 6 | SEALING STRIP | 19.0 x 4.0 | 0.748 x 0.157 |
| 7 | SEALING STRIP | 30.0 x 2.0 | 1.181 x 0.079 |
| 14 | SEALING STRIP | 12.0 x 4.0 | 0.472 x 0.157 |
| 15 | SEALING STRIP | 38.0 x 2.0 | 1.496 x 0.079 |
| 16 | SEALING STRIP | 25.0 x 2.0 | 0.984 x 0.079 |
| 21 | SEALING STRIP | 9.0 x 4.0 | 0.354 x 0.157 |
| | OR | 9.0 x 6.0 | 0.354 x 0.236 |

FWD Cargo Compartment Sidewall and Ceiling Panels (TYPICAL)
(Sheet 2 of 2)
Figure 201

R

R EFFECTIVITY: 001-005, 101-200,

PIA



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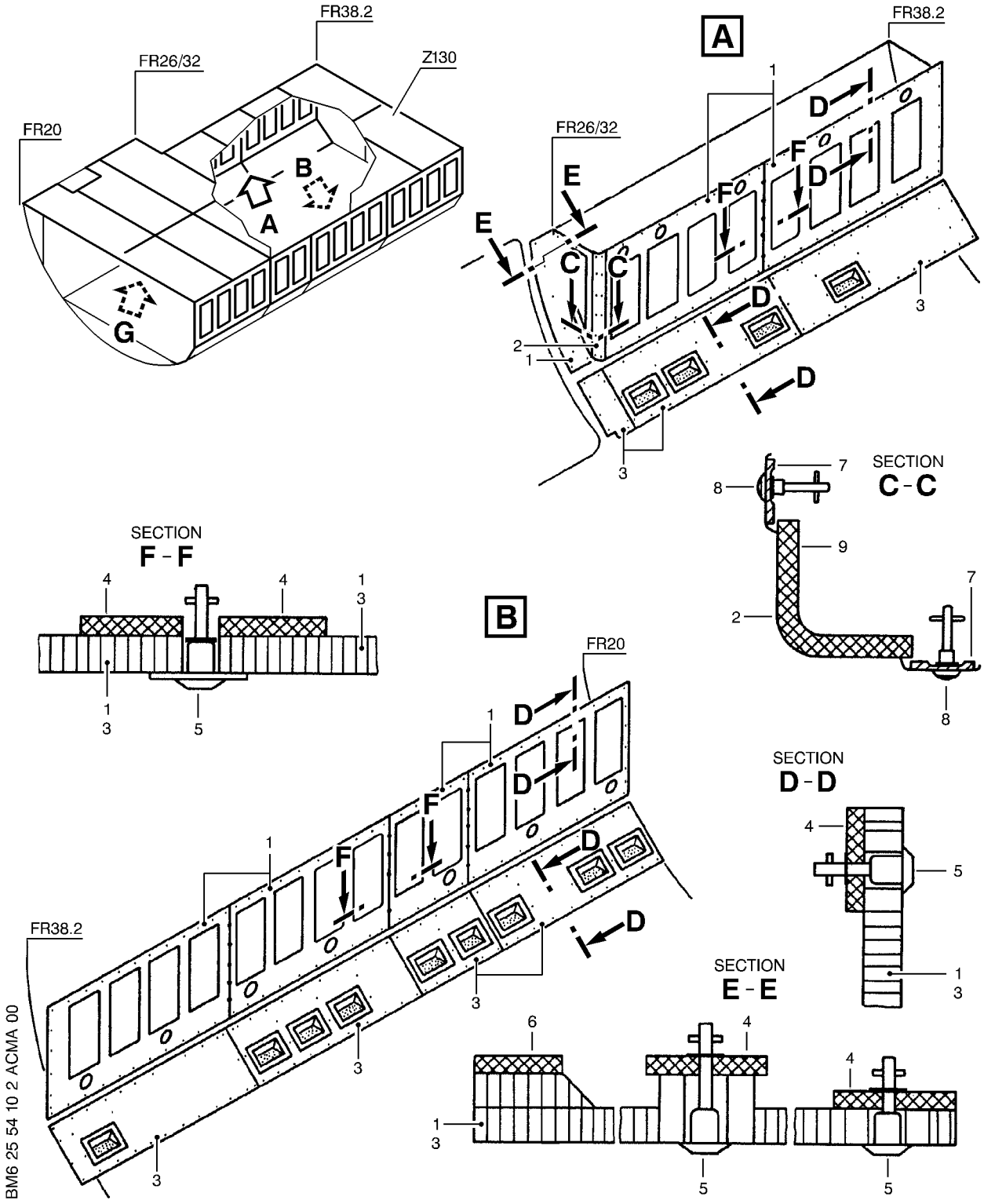


FWD Cargo Compartment Sidewall and Ceiling Panels (TYPICAL)
(Sheet 1 of 2)
Figure 202

R

R EFFECTIVITY: 006-100,

PIA

25-54-10



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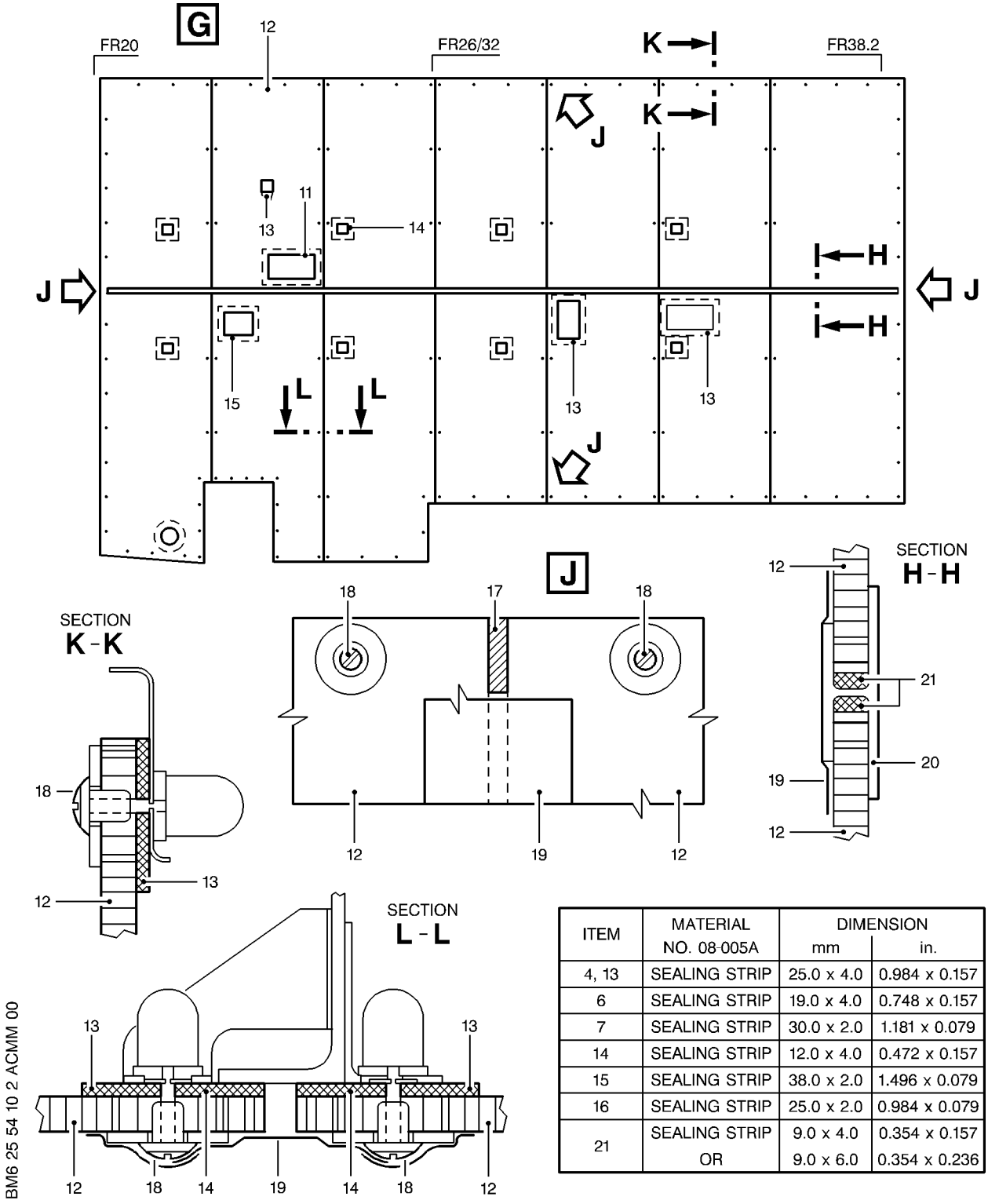



| ITEM | MATERIAL NO. 08-005A | DIMENSION mm | DIMENSION in. |
|---|---|---|---|
| 4, 13 | SEALING STRIP | 25.0 x 4.0 | 0.984 x 0.157 |
| 6 | SEALING STRIP | 19.0 x 4.0 | 0.748 x 0.157 |
| 7 | SEALING STRIP | 30.0 x 2.0 | 1.181 x 0.079 |
| 14 | SEALING STRIP | 12.0 x 4.0 | 0.472 x 0.157 |
| 15 | SEALING STRIP | 38.0 x 2.0 | 1.496 x 0.079 |
| 16 | SEALING STRIP | 25.0 x 2.0 | 0.984 x 0.079 |
| 21 | SEALING STRIP OR | 9.0 x 4.0<br>9.0 x 6.0 | 0.354 x 0.157<br>0.354 x 0.236 |

FWD Cargo Compartment Sidewall and Ceiling Panels (TYPICAL)
(Sheet 2 of 2)
Figure 202

(1)Removal of sidewall panels LH and RH (1),(3).
(a)Loosen quick-release fasteners (8) and remove corner profile (2).
(b)Loosen quick-release fasteners (5) and remove upper and lower sidewall panels (1),(3).
(2)Removal of ceiling panels (12).
CAUTION : DURING REMOVAL AND INSTALLATION OF CEILING PANELS, AVOID CONTACT WITH THE CONTROL CABLES OF RAM AIR TURBINE E.G. THOSE WHICH PASS ABOVE THE CEILING PANELS.
(a)Remove existing adhesive tape (19).
(b)Remove sealing profile (17) from outer ends of ceiling panel gaps.
(c)Loosen quick-release fasteners (18).
(d)Remove ceiling panels (12) by lowering outer ends of panels and withdrawing from "T" section (20).

C. Preparation for Installation

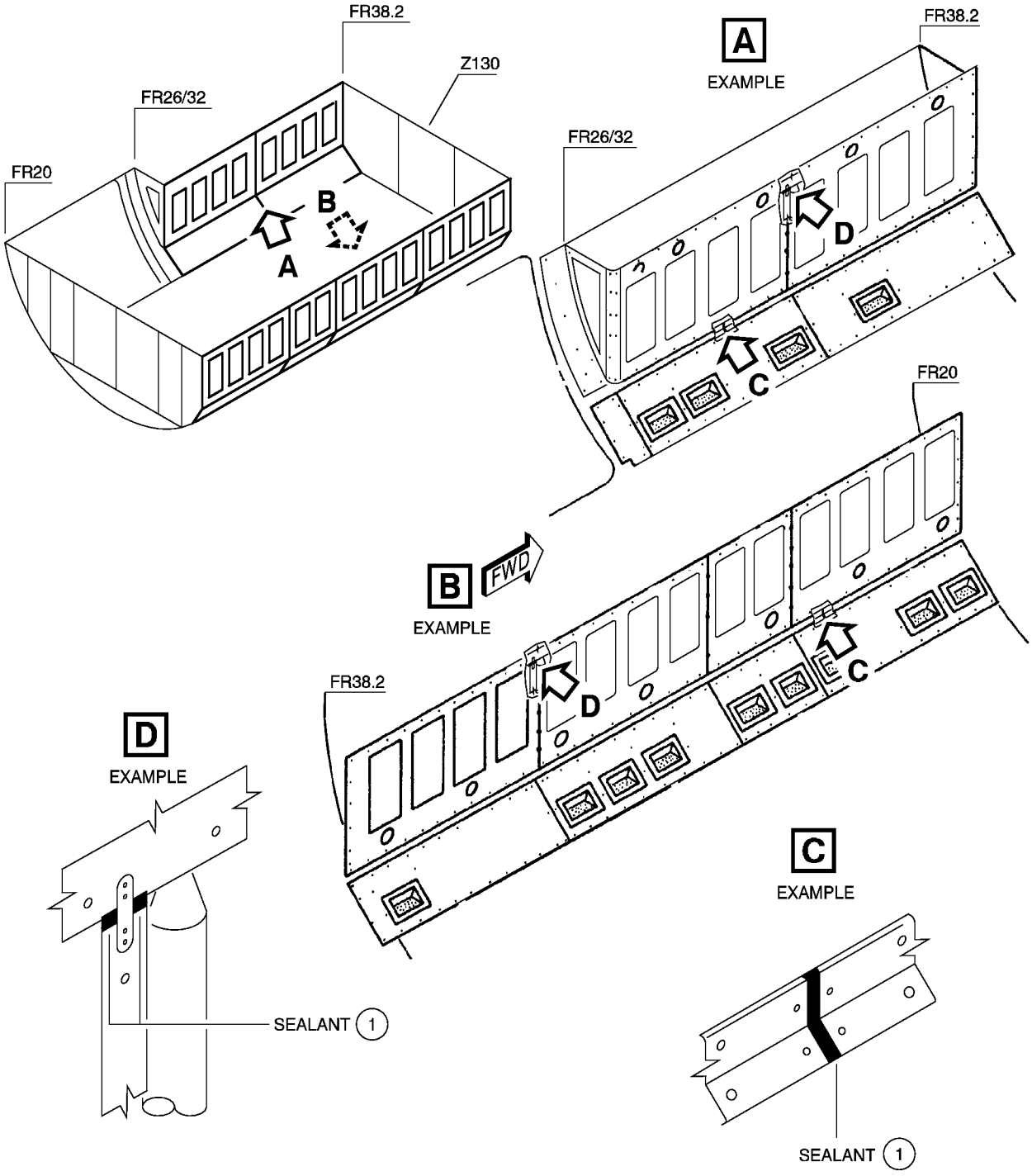
CAUTION : BE CAREFUL WHEN YOU INSPECT/REPLACE THE SEALING OF THE CARGO COMPARTMENT LININGS AND FLOOR PANELS.
MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED.
PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

(1)Do an inspection of the sidewall panels and ceiling panels for damage.
(2)If necessary, repair the panels (Ref. 25-00-00, P. Block 801).
(3)Do an inspection of the sealing strips for damage at upper and lower sidewall panels (1), (3) and the ceiling panels (12).
R (4)Make sure that:
R - there are no gaps between the sealing strips,
R - the sealing strips are well bonded at the panels,
R - the sealing strips are flexible,
R - the sealing strips have the same thickness per panel,
R - the surface of the sealing strips is not fractional,
R - no sealing strips are missing or damaged.
R Renew or install sealing strips as necessary.
R (5)Make sure that for the sealing strips Material No. 08-005A and not
R 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.
R (6)Do an inspection of the sealing rubber (9) for damage at the corner profile (2).
R (7)Replace a damaged sealing rubber (9).
R (8)Clean the contact area where you install the sidewall panels (1), (3) and ceiling panels (12) using cleaning agent (Material No. 11-002).
R (9)Do an inspection of this structure for integrity and good condition.
R (10)If the structure is damaged, replace it.
R (11)Make sure that contact areas of the panels at the structure are flat.
R (12)Close any open gaps or holes with sealant (Material No. 09-016) and

R make it flat (Ref. Fig. 203).
R (13)Make sure that after application and drying of sealant, the contact
R surfaces are still flat. Rework as necessary.
R (14)Make sure that all fasteners at sidewall panels and ceiling panels
R exist and that they are not damaged.
R (15)Make sure that placards on replaced or repaired components are in
R correct positions and in good condition.
(16)If necessary, install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Installation of sidewall panels LH and RH (1),(3).
(a)Position upper and lower sidewall panels (1),(3) and secure with quick-release fasteners (5).
(b)Position corner profile (2) and secure with quick-release fasteners (8).
(2)Installation of ceiling panels (12).
(a)Locate ceiling panels (12) into center "T" section (20) and secure panel to ceiling with quick-release fasteners (18).
R (b)Install sealants (17) (Material No. 09-030) to a thickness of 8 mm (0.32 in.) at outer ends of ceiling panel gaps over a length of about 25 mm (1.0 in.).
(c)Clean the contact areas of the adhesive tape with cleaning agent (Material No. 11-002) and let them dry.
(d)Apply adhesive tape (19) (Material No. 08-060) to "T" section (20) and all gaps between ceiling panels (12).

E. Close-Up
R (1)After installation, make sure that there are no open gaps or holes
R between the panels and no open gaps or holes between the panels and
R the structure.
R (2)Make sure that work area is clean and clear of tools and mis-
cellaneous items of equipment.
R (3)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
R (4)Close FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
R (5)Remove safety clip and tag and close circuit breaker 7GX.
R (6)Remove access platform.

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NOTE:

(1) MATERIAL NO. 09-016

Example of possible gaps
Figure 203

R

# FWD CARGO COMPARTMENT DRAIN SYSTEM - DESCRIPTION AND OPERATION

## 1. General

The drain system of the FWD cargo compartment is installed under the compartment floor in zones 133/134 and 135/136, between STA1446/FR20 and STA2241/FR39. The system, which is divided into two independent subsystems, collects rain water and spilt liquids. Collected liquids are discharged via drain valves in the fuselage lower shell (Ref. 51-80-00).

## 2. Component Location

(Ref. Fig. 001)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF |
|---|---|---|---|---|---|
| | DRIVE UNIT FRAME ASSEMBLY | | 131/132 | 811 | 25-54-80 |
| | GUIDE DRAIN SUMP | | 133/134 | 811 | 25-54-80 |
| | DRAIN POINT GULLY | | 135/136 | 811 | 25-54-80 |

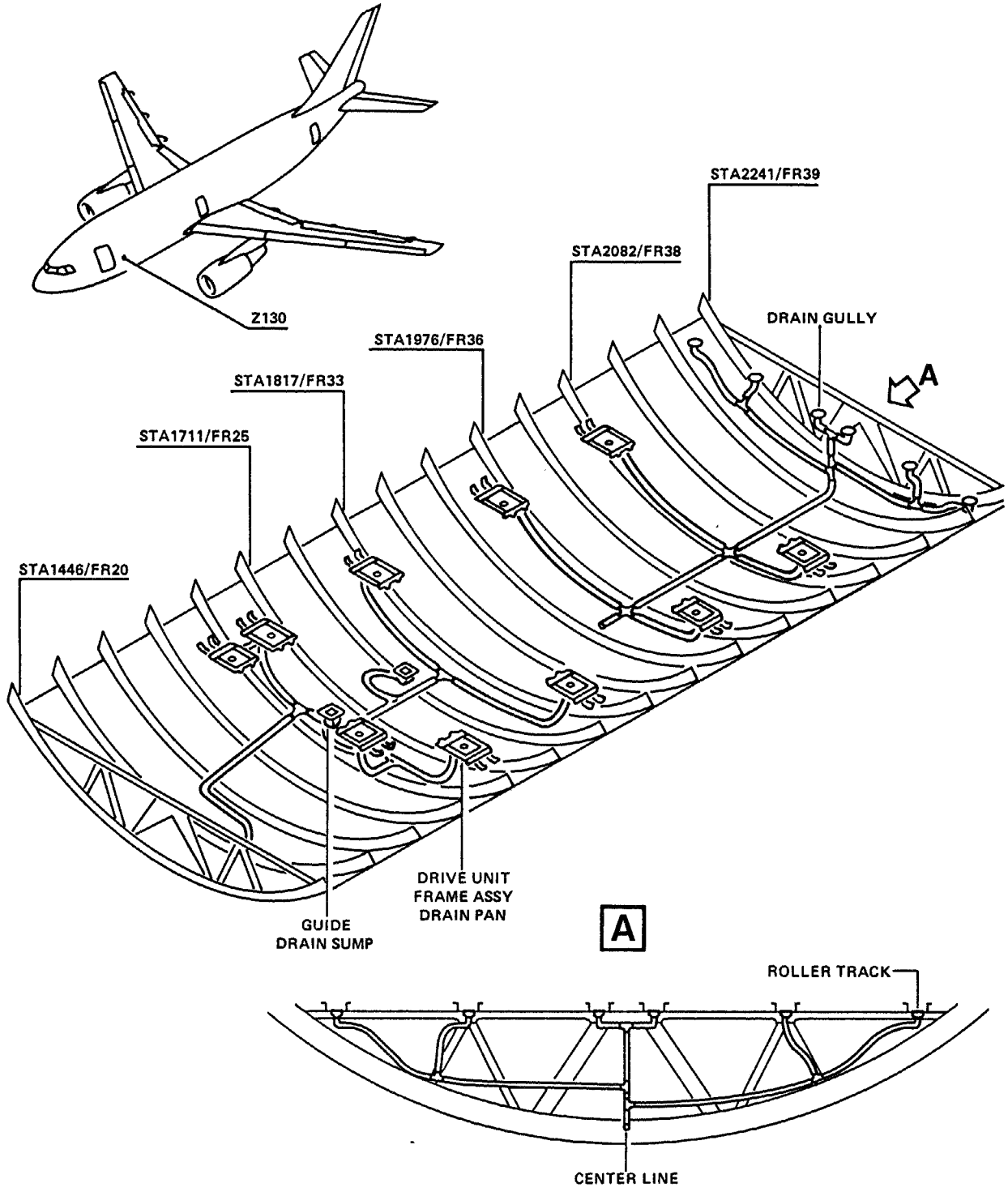
## 3. Description and Operation

The drainage system comprises drain pans, drain sumps, drain gully and hoses. The drain pans are located below the power drive units and the drain sumps below the retractable guides of the cargo loading system. The drain gullys are installed into the roller tracks at the aft end of the FWD cargo compartment. The rear roller track ribs aft STA1817/FR33 have drain holes to allow waterflow from the floor panels to the drain gullys in the roller tracks.

Drain pans, drain sumps and drain gullys are sealed to the compartment floor structure. Filters are provided in the inlet points of the drain system.

Flexible hoses connect the drain pans, drain sumps and drain gullys to intermediate collector hoses, which in turn direct the collected liquids overboard via the drain valves in the lower fuselage shell.

The flexible hoses are attached to the underfloor structure by brackets and cable ties. Cable ties secure the flexible hoses at connection points and at T-pieces, which are used to form the hose junctions.




FWD Cargo Compartment Drain System
Figure 001

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| E. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| G. Material No. 09-005 | Sealants (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| R J. Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 25-52-26, P. Block 401 | Power Drive Unit |
| - 25-52-49, P. Block 401 | Retractable Y-Guide |
| - 51-75-10, P. Block 801 | Repair of Paint Coatings |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 53-10-29, P. Block 401 | FWD Cargo Compartment Floor Panels |

2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make sure that electronics rack ventilation is correct.
(4)Open FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock on FWD cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 921VU | MAIN FUSE | 1MY | |
| 921VU | CONTROL FUSE | 6MY | |
| 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO DOOR PUMP | 7GX | 333/T51 |

(8)Remove ball mats (Ref. 25-52-22, P. Block 401) and/or FWD cargo compart-

ment floor panels (Ref. 53-10-29, P. Block 401) in the work area as required.

(9)Remove power drive unit (Ref. 25-52-26, P. Block 401) and/or retractable Y-guide (Ref. 25-52-49, P. Block 401) as required to gain access to drain pans and/or drain sumps.

NOTE : Access to filter below retractable drive unit can be gained by hinging drive unit upwards.

B. Removal

(Ref. Fig. 201)

(1)Remove drain sump of retractable Y-guide.

NOTE : Removal/Installation is typical for all drain sumps of retractable Y-guides.

(a)Remove tie-wrap (3) from hose (4).

(b)Remove hose (4) from drain sump (1).

R (c)Remove drain sump (1) with adhesive tape (Material No. 08-005A) (2).

(d)Discard adhesive tape (2).

NOTE : Drain sump (1) and retractable Y-guides are secured with the same screws.

(e)Remove and discard filter (5).

(Ref. Fig. 202)

(2)Remove drain pan of power drive unit.

NOTE : Removal/Installation is typical for all drain pans of power drive units.

(a)Remove screw (20) with nut (17) and washer (19). Disconnect bonding strap (18).

(b)Remove screws (10),(12) with nuts (14).

NOTE : Record screw length and position. Screw lengths differ.

(c)Carefully ease out drain pan (13) to gain access to hose (15).

(d)Remove tie-wrap (16) and disconnect hose (15) from drain pan (13).

(e)Remove and discard filter (21).

(Ref. Fig. 203)

(3)Remove filter and filter holder.

(a)Remove screw (1) from filter holder (2).

(b)Remove filter (3) and discard it.

(4)Remove drain funnel (Ref. Fig. 203)

(a)Cut and remove strap (6) from flexible hose (7).

(b)Discard strap (6).

(c)Pull flexible hose (7) from drain funnel (5).

(d)Remove screws (9) and nuts (8).

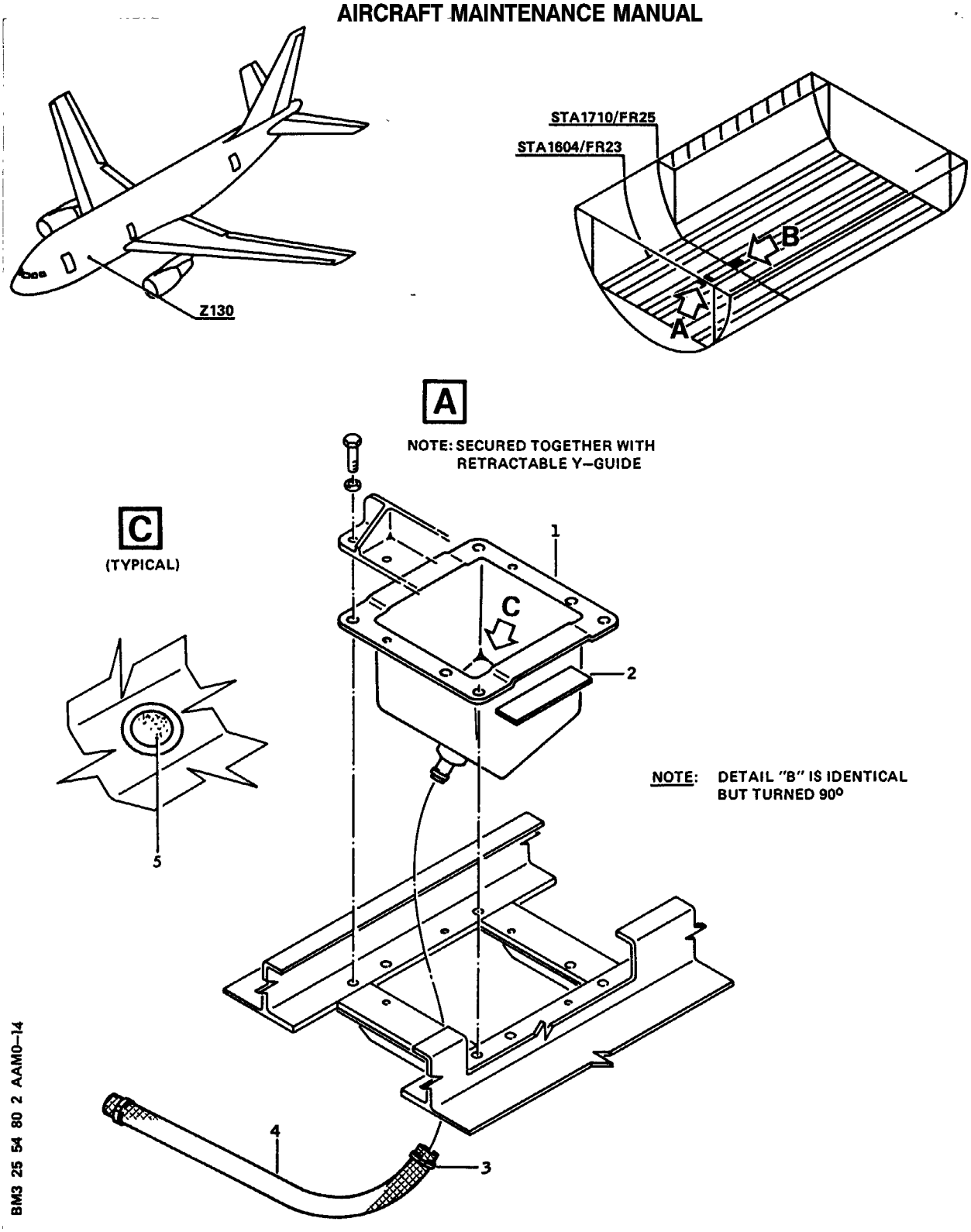
(e)Remove drain funnel (5) from drain inlet (4).

NOTE : Removal and installation is the same for all drain funnels.

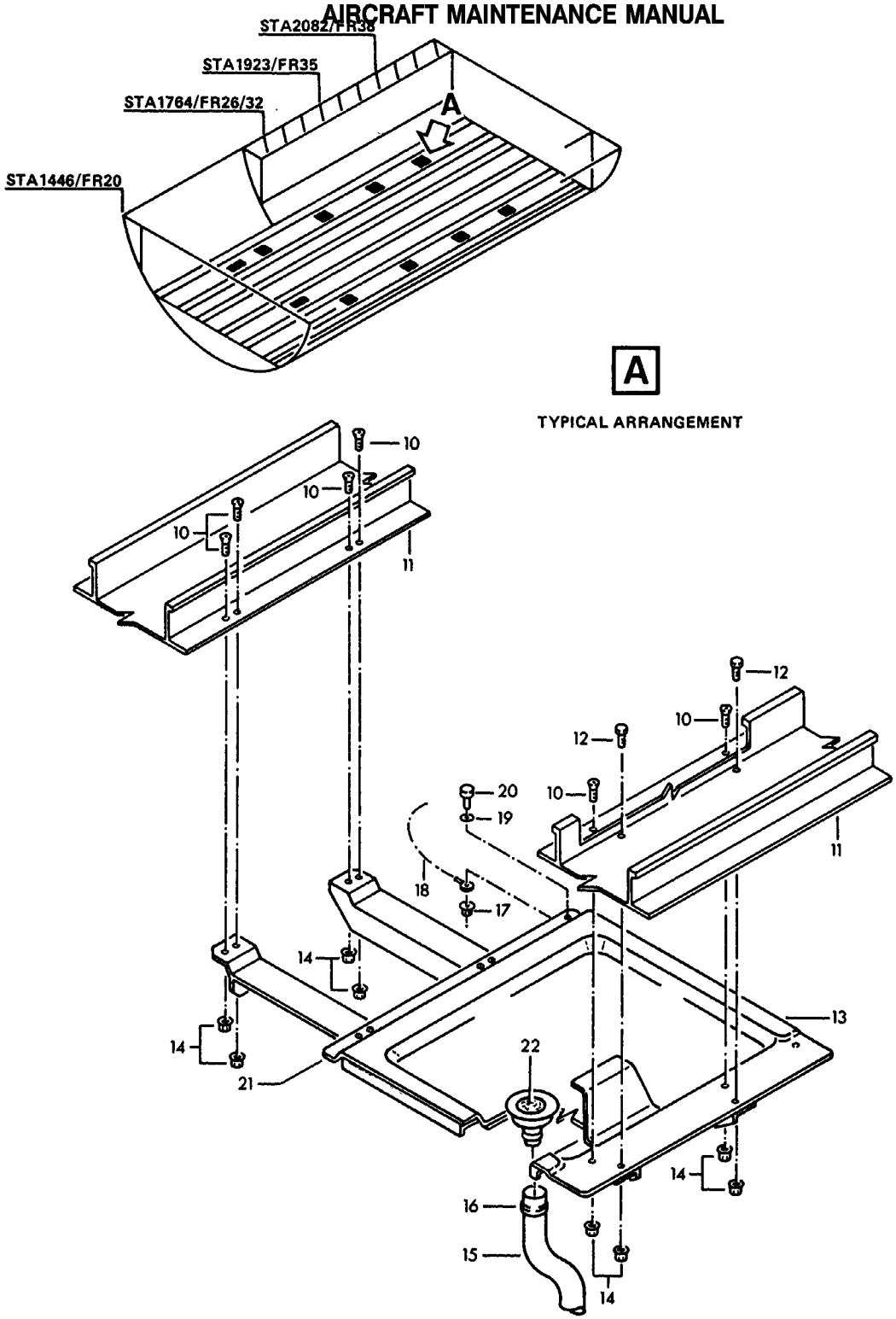
C. Preparation for Installation

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

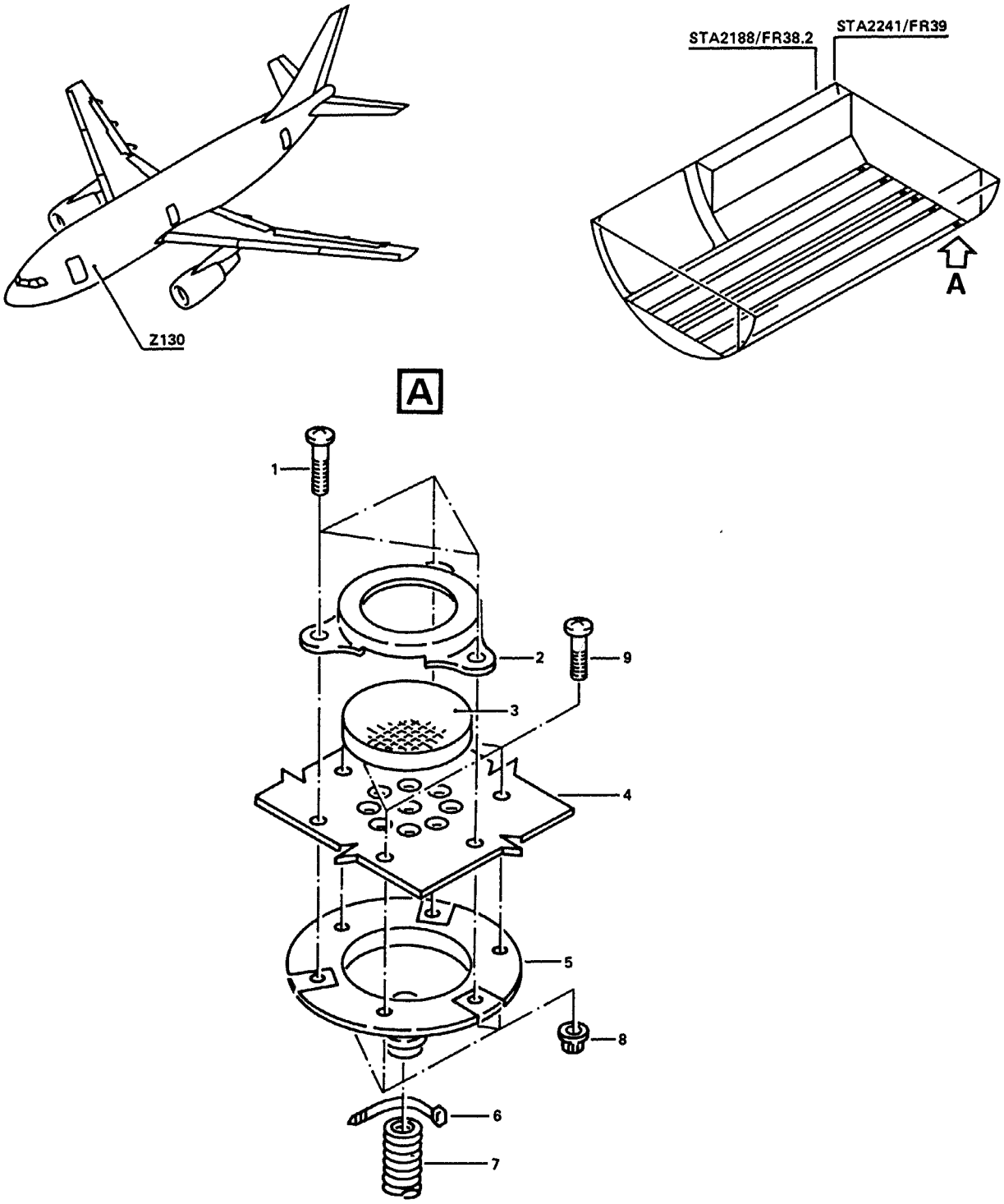
(1)Clean mating surfaces of drain pan/drain sump/drain gully and floor structure using Methylethylketone (Material No. 11-003).




Drain Sump of Retractable Y-Guide
Figure 201




Drain Pan of Power Drive Unit
Figure 202




Drain Gully in Roller Track
Figure 203

D. Installation
(1)Drain sump of retractable Y-guide (Ref. Fig. 201):
(a)Install new filter (5) in drain sump (1).
R (b)Bond new adhesive tape (Material No. 08-005A) (2) to cleaned surface.
(c)Install drain sump (1).
(d)Connect hose (4) to drain sump (1) using new tie-wrap (3).
R (e)Make sure that there is no open gap or hole between the drain sump (1)
R and the roller tracks. Close any open gap or hole with sealant
R (Material No. 09-005).
(2)Drain pan of power drive unit (Ref. Fig. 202):
(a)Install new filter (21) in drain pan (13).
(b)Position drain pan in structure (11) and connect hose (15) to drain pan (13).
(c)Secure with new tie-wrap (16).
(d)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (10),(12),(20).
(e)Install screws (10),(12) with nuts (14).
(f)Prepare electrical bonding area (Ref. 20-28-11, P. Block 1).
(g)Connect bonding strap (18) to power drive unit frame (21) using screw (20) with washer (19) and nut (17).
(3)Drain funnel (Ref. Fig. 203)
(a)Position drain funnel (5) below drain inlet (4).
(b)Install screws (9) with nuts (8).
(c)Put a new strap over flexible hose (7).
(d)Put flexible hose (7) on drain funnel (5).
(e)Tighten strap (6).
(4)Filter and filter holder (Ref. Fig. 203)
(a)Put new filter in filter holder (2).
(b)Position filter holder (2) on drain inlet (4).
(c)Install screws (1) in filter holder (2).

E. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install retractable Y-guide (Ref. 25-52-49, P. Block 401) and/or power drive unit (Ref. 25-52-26, P. Block 401).
(3)Install ball mats (Ref. 25-52-22, P. Block 401) and/or floor panels (Ref. 53-10-29).
(4)Repair damaged coating of corrosion-preventive compound (Material No. 05-005) and moisture removing oil (Material No. 05-027) as necessary (Ref. 51-75-10, P. Block 801).
NOTE : Do not allow special materials to contact rollers, drive units, latches and filters,
(5)Remove safety clips, tags and close circuit breakers 1MY, 6MY, 7GX and 23GX.
(6)Remove warning notice.
(7)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(8)Close FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(9)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(10)Remove access platform.

# AFT CARGO COMPARTMENT - DESCRIPTION AND OPERATION

## 1. General

A. The AFT cargo compartment is located between STA2931/FR54 and
R STA3438/FR63B. The compartment is pressure sealed. Pressure leaks
R through the compartment are not permitted. This would result in a de-
R crease in the performance of the fire extinguishing system. The compartment is equipped with an electrically powered semi-automatic cargo loading system for powered conveyance of approved air freight transport units (containers, pallets). Access to the compartment is through an outwards opening, hydraulically operated door fitted, on the right hand side of the fuselage between STA3235/FR59A and STA3422/FR63A.

**ON A/C 101-200,

An additional fuel tank is installed in the AFT cargo compartment. Fuel tubes and electrical connections are routed through the ceiling and sidewall panels.

**ON A/C ALL

B. The cargo compartment flooring consists of removable panels, manufactured from honeycomb and laminates. A drain system is installed under the floor to collect rain water and liquids resulting from accidental spillage. Spillage is collected at drain points and dumped overboard automatically. The compartment paneling consists of sidewall and ceiling panels, and covers the fuselage structure throughout. The paneling is attached directly to the ceiling and side structure. The ceiling panels have cutouts that fit the lighting, smoke detectors, and extinguisher nozzles to ease maintenance accessibility to these components.

C. To safeguard the aircraft structure against the effects of explosive decompression, the compartment is fitted with a system of decompression panels located in the ceiling and sidewall panels (Ref. 25-66-30).

## 2. Component Location

AFT CARGO COMPARTMENT

| | ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|---|
| | 1 | Partition Panels | 151/152 | 812 |
| | 2 | Ceiling Panels | 151/152 | 812 |
| | 3 | Ceiling Decompression Panels (Ref. 25-66-30) | 151/152 | 812 |
| | 4 | Sidewall Panels | 151/152 | 812 |
| | 5 | Sidewall Decompression Panels (Ref. 25-66-30) | 151/152 | 812 |
| | 6 | Heat Insulation | 151/152 | 812 |
| R | 7 | Sealing Strip | 151/152 | 812 |
| | 8 | Adhesive Tape | 151/152 | 812 |

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 9 | Sealing Rubber | 151/152 | 812 |
| 10 | Sealing Compound | 151/152 | 812 |

(Ref. Fig. 001)

3. Description and Operation

A. Ceiling Panels

The ceiling panels in the AFT cargo compartment are attached to the ceiling structure between STA2931/FR54 and STA3461/FR64.

They consist of individual panels of sandwich construction that can be removed and installed independently. The ceiling panels are inserted in an H-beam along the aircraft centerline and then secured to the structure with
R screws. Sealing strips are fixed to the panels to seal any gaps between individual panels and the mounting surfaces of the ceiling structure.

Adhesive tape is used to seal gaps between the individual ceiling panels.
R Sealing strips and adhesive tape are also used to ensure the pressure
R tightness of the cargo compartment for an effective performance of the
R fire extinguishing system.

Hinged decompression panels are incorporated in the RH and LH ceiling panels (Ref. 25-66-30).

B. Sidewall Panels

The upper and lower sidewall panels in the AFT cargo compartment extend from STA2931/FR54 to STA3408/FR63. The individual panels are manufactured from sandwiched honeycomb and can be removed and installed independently. The panel attachment to the structure is similar to the ceiling panel attachment.

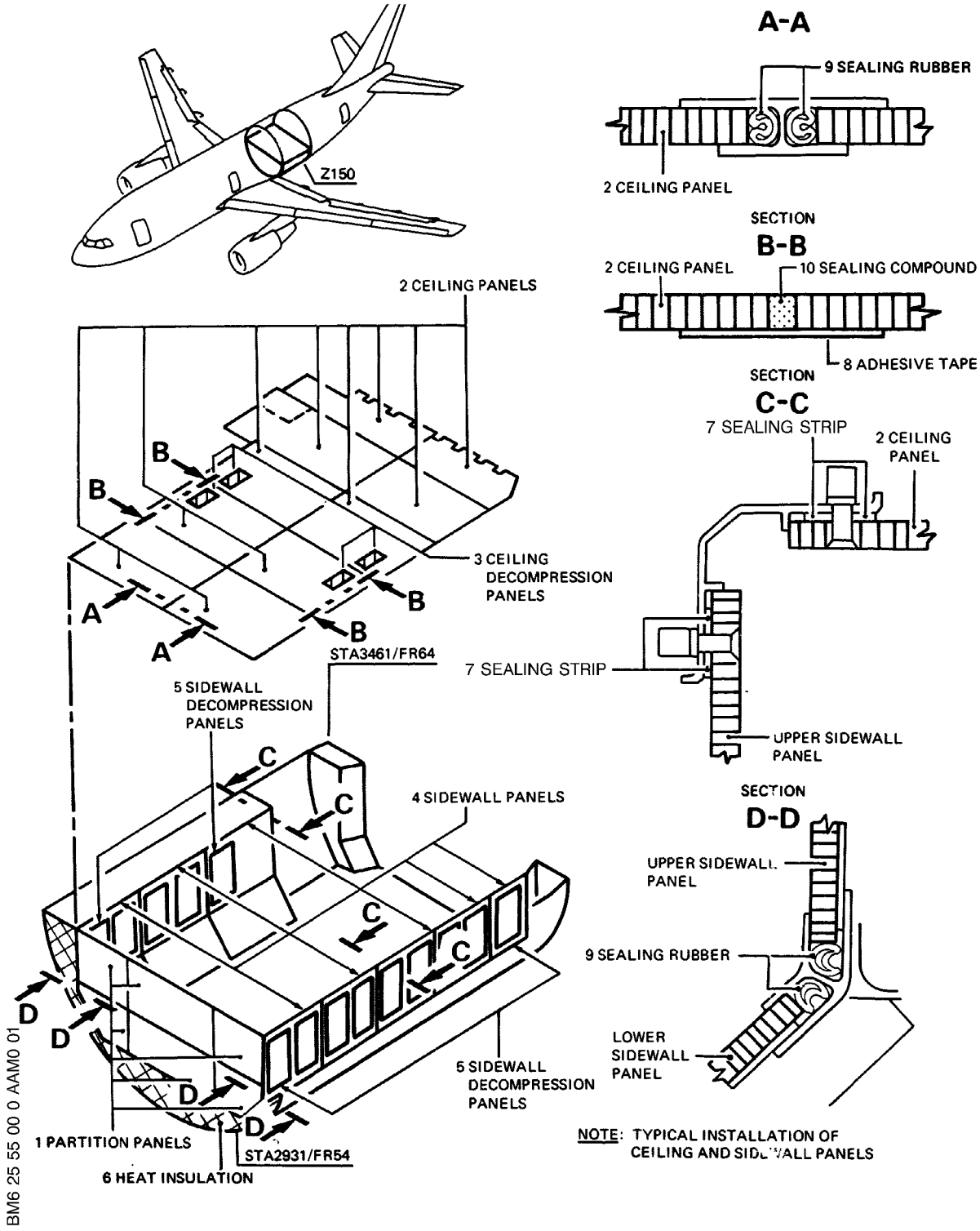
Decompression panels are incorporated in the RH and LH sidewall panels (Ref. 25-66-30).

C. Heat Insulation

The complete AFT cargo compartment is heat insulated. The insulation consists of individual insulation packages, positioned in the fuselage structure and attached by hooks on the structure. The insulation packages consist of a glasswool filler, encased in an envelope made from aluminum and polyester foil, bonded together by woven fabric and resin. The envelope is sealed at the edges.

D. Cargo Loading System (Ref. 25-52-00)

The AFT cargo compartment is equipped with a semi-automatic cargo loading system to handle pallets and containers (Unit Load Devices). The cargo loading system is controlled from a control panel installed near the cargo compartment door. The cargo loading system can be operated by one man. In the event of a power failure or malfunction, manual loading/unloading of the Unit Load Device (ULD) is possible.




Typical Arrangement of AFT Cargo Compartment
Figure 001

R

NOTE : For repair of cargo compartment linings Ref. 25-00-00, P. Block 801.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. Material No. 08-060 | Bonding and Adhesive Compounds (Ref. 20-31-00) 50 mm (2 in.) width |
| C. Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| D. Material No. 11-002 | Cleaning Agents (Ref. 20-31-00) |
| E. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| R F. Material No. 09-030 | Sealants (Ref. 20-31-00) |

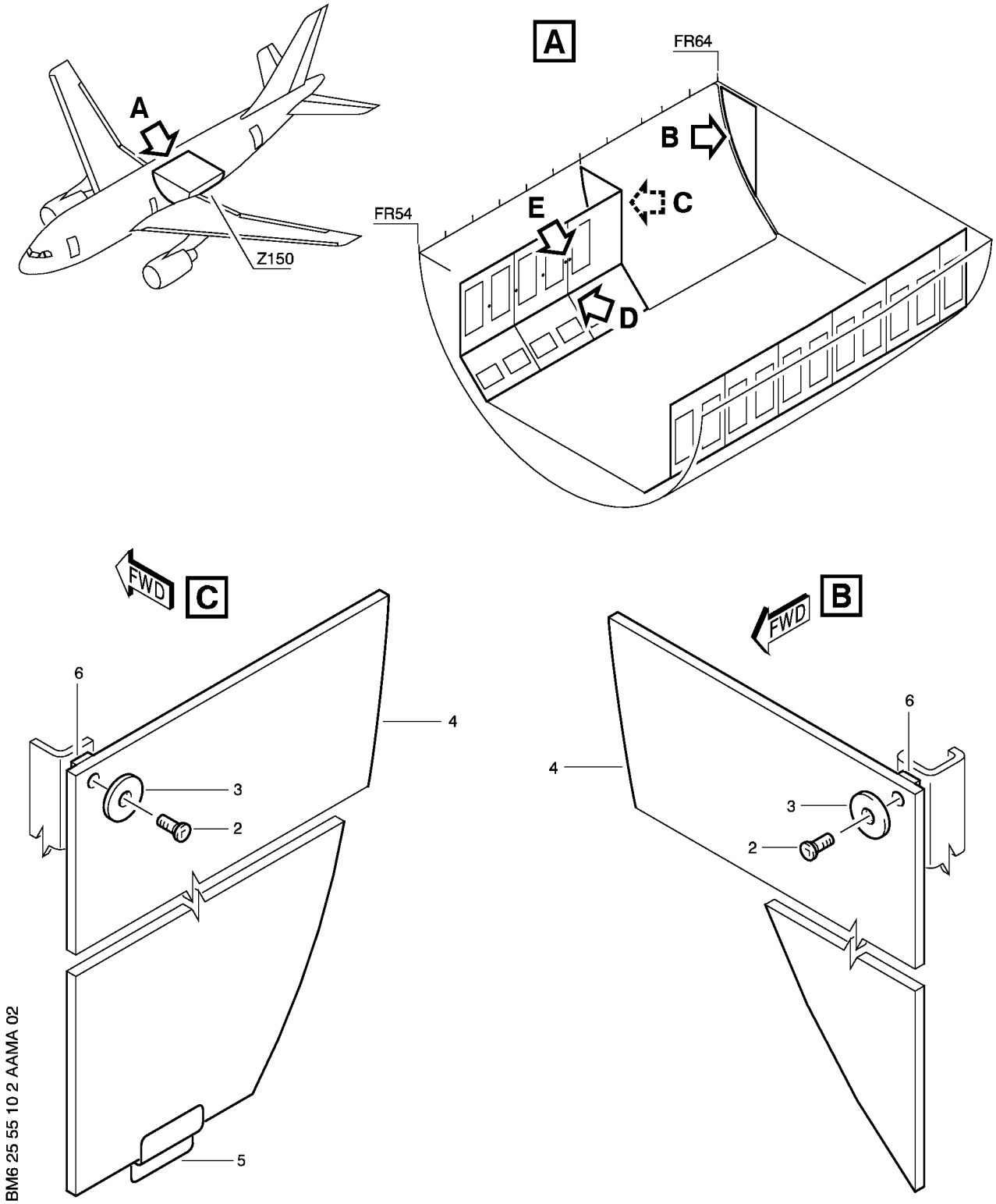
Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings-General |
| - 25-00-00, P. Block 801 | Equipment / Furnishings - Approved Repairs |
| - 25-66-30, P. Block 201 | AFT and BULK Cargo Compartment Decompression Panels |
| - 26-16-11, P. Block 401 | Smoke Detector |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |

2. Procedure

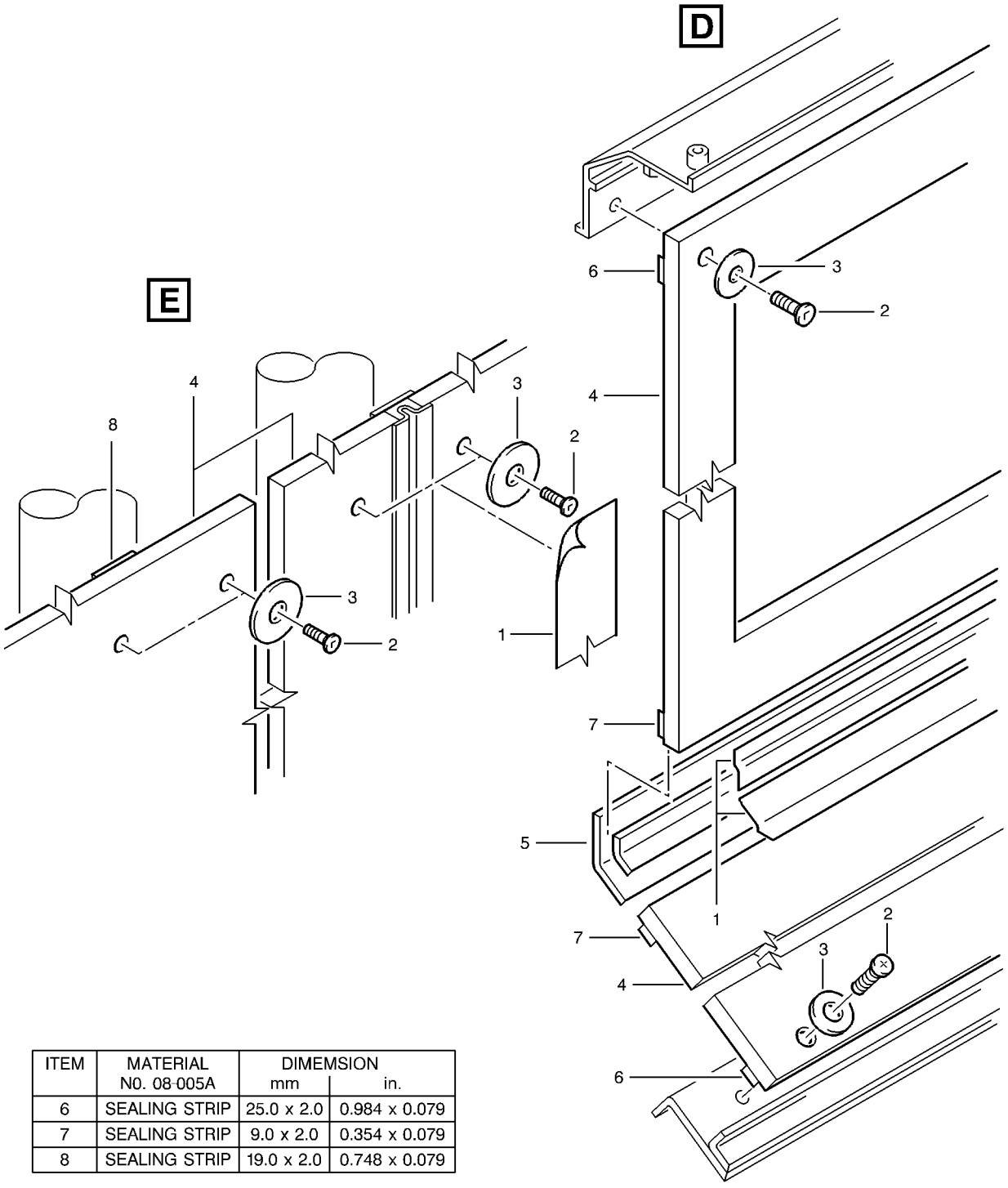
A. Job Set-Up
(1)Position access platform.
(2)Open AFT cargo compartment door and secure with safety lock (Ref. 52-30-00, P. Block 301).

B. Removal
(1)Remove AFT cargo compartment sidewall panels LH and RH (Ref. Fig. 201).
NOTE : Mark position of each panel for subsequent installation.
NOTE : Remove decompression panels if necessary (Ref. 25-66-30, P. Block 201).
(a)Remove adhesive tape (1).
(b)Remove stud nuts (2) and washers (3).
(c)Lift panels (4) out of brackets (5) and remove panels.
(2)Remove ceiling panels (Ref. Fig. 202).
NOTE : Mark position of each panel for subsequent installation.
(a)Remove adhesive tape (3).
(b)Remove sealing profile (16) from outer ends of ceiling panel gaps.
(c)Remove stud nuts (1) and washers (2).
(d)Remove retainers (5) if fitted.
(e)Remove smoke detector if fitted (Ref. 26-16-11, P. Block 401).
(f)Remove screws (8) and tie-down points (9).
(g)Remove screws (10) and washers (11) at lamp in door area.
(h)Remove screws (12) and washers (13) at lamps in cargo compartment area.
(j)Remove ceiling panels (6) by lowering outer ends of panels and with-




AFT Cargo Compartment Sidewall Panels
(Sheet 1/2)
Figure 201

R

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| ITEM | MATERIAL N0. 08-005A | DIMEMSION mm | DIMEMSION in. |
|---|---|---|---|
| 6 | SEALING STRIP | 25.0 x 2.0 | 0.984 x 0.079 |
| 7 | SEALING STRIP | 9.0 x 2.0 | 0.354 x 0.079 |
| 8 | SEALING STRIP | 19.0 x 2.0 | 0.748 x 0.079 |

AFT Cargo Compartment Sidewall Panels
(Sheet 2/2)
Figure 201

R

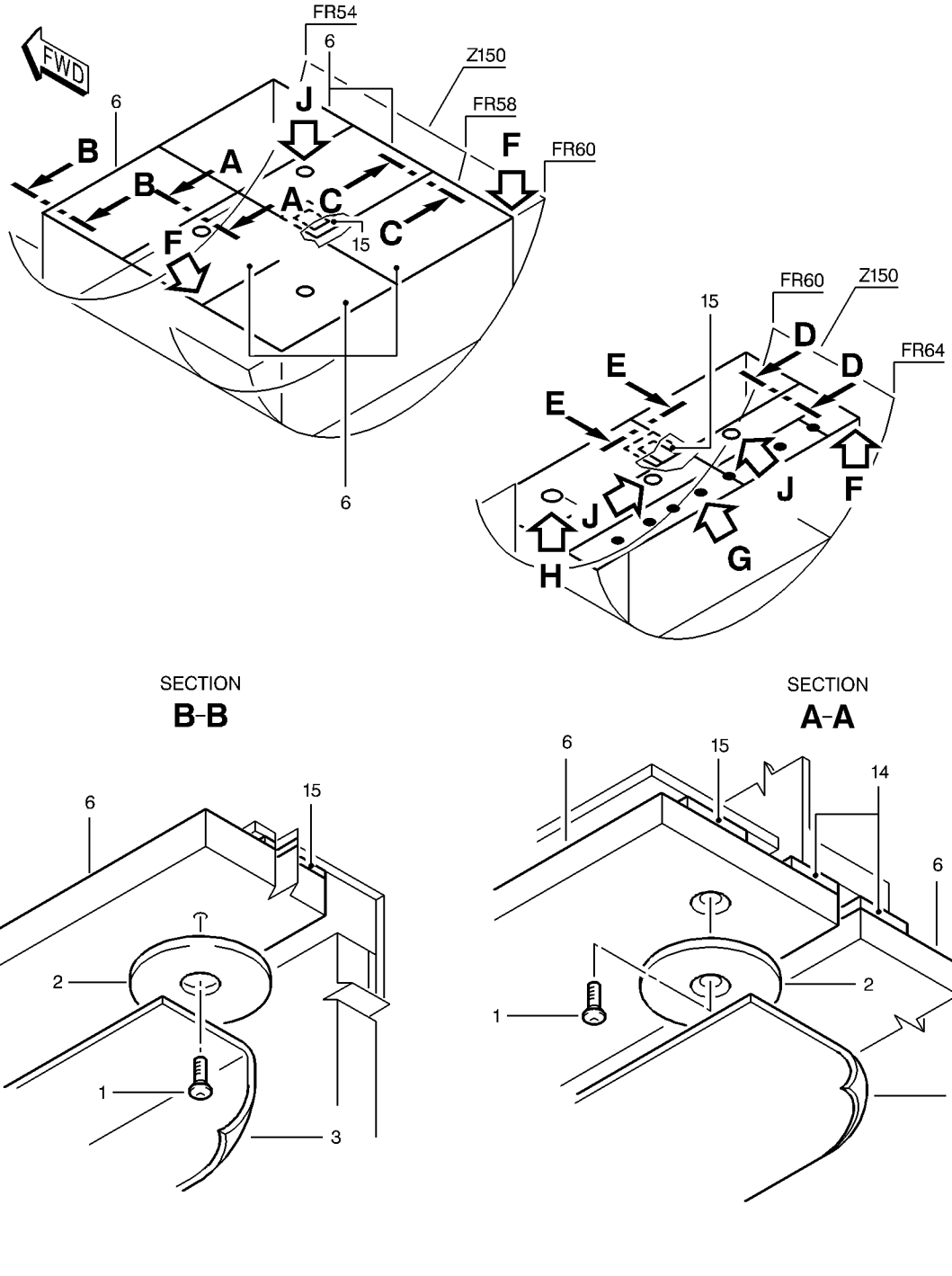
drawing from T-section (4).

C. Preparation for Installation (Ref. Fig. 201, , 202)

CAUTION : BE CAREFUL WHEN YOU INSPECT/REPLACE THE SEALING OF THE CARGO COMPARMENT LININGS, PARTITIONS AND FLOOR PANELS. MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED. PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

(1)Do an inspection of the sidewall panels and ceiling panels for damage.
(2)If necessary, repair the panels (Ref. 25-00-00, P. Block 801).
R (3)Make sure that the decompression panels are correctly installed.
R (4)Do an inspection of the sealing strips at sidewall panels (4) and ceiling panels (6).
R (5)Make sure that:
R - there are no gaps between the sealing strips,
R - the sealing strips are well bonded at the panels,
R - the sealing strips are flexible,
R - the sealing strips have the same thickness per panel,
R - the surface of the sealing strips is not fractional,
R - no sealing strips are missing or damaged.
R Renew or install sealing strips as necessary.
R (6)Make sure that for the sealing strips Material No. 08-005A and not
R 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.
(7)Clean the contact area of the structure where you install the sidewall panels (4) and ceiling panels (6) using cleaning agent (Material No. 11-002).
(8)Do an inspection of this structure for integrity and good condition.
R (9)If the structure is damaged, repair or replace it.
R (10)Make sure that contact areas of the panels at the structure are flat. Close any open gaps or holes with sealant (Material No. 09-016) and
R make it flat.
(11)Make sure that after application and drying of sealant, the contact
R surfaces are still flat. Rework as necessary.
R (12)Make sure that all fasteners at sidewall panels and ceiling panels
R exist and they are not damaged.
R (13)Make sure that placards on replaced or repaired components are in correct positions and in good condition.
R (14)If necessary, install new placards (Ref. 11-00-00, P. Block 1).

D. Installation
(1)Install sidewall panels LH and RH (Ref. Fig. 201):
(a)Position marked panels into brackets (5) and secure with washers (3) and stud nuts (2).
(b)Clean the contact areas of the adhesive tape with cleaning agent (Material No. 11-002) and let them dry.
(c)Install new adhesive tape (1) (Material No. 08-060).
(d)Make sure that decompression panels are correctly installed (Ref. 25-66-30, P. Block 201).

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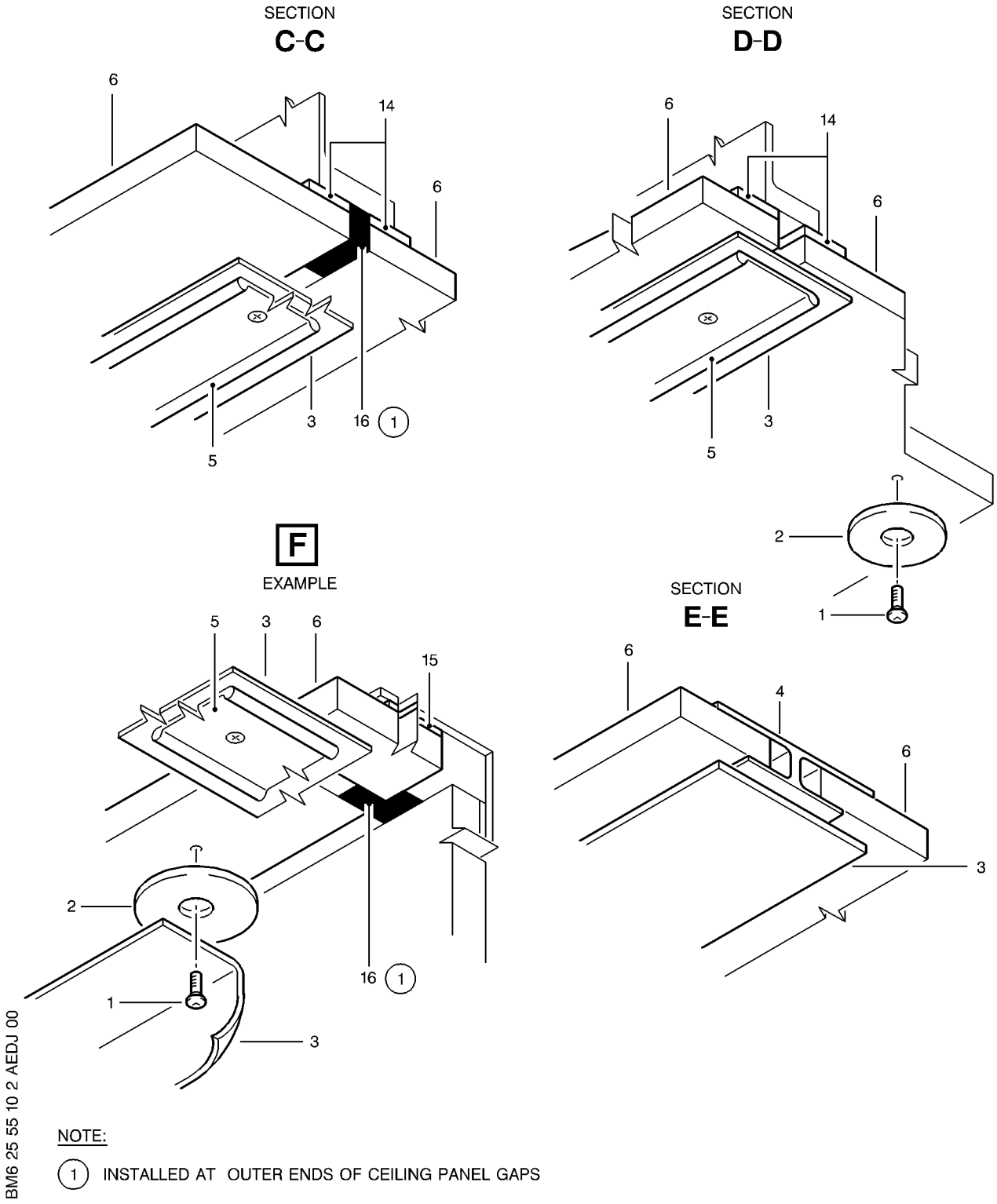
AFT Cargo Compartment Ceiling Panels
(Sheet 1/3)
Figure 202

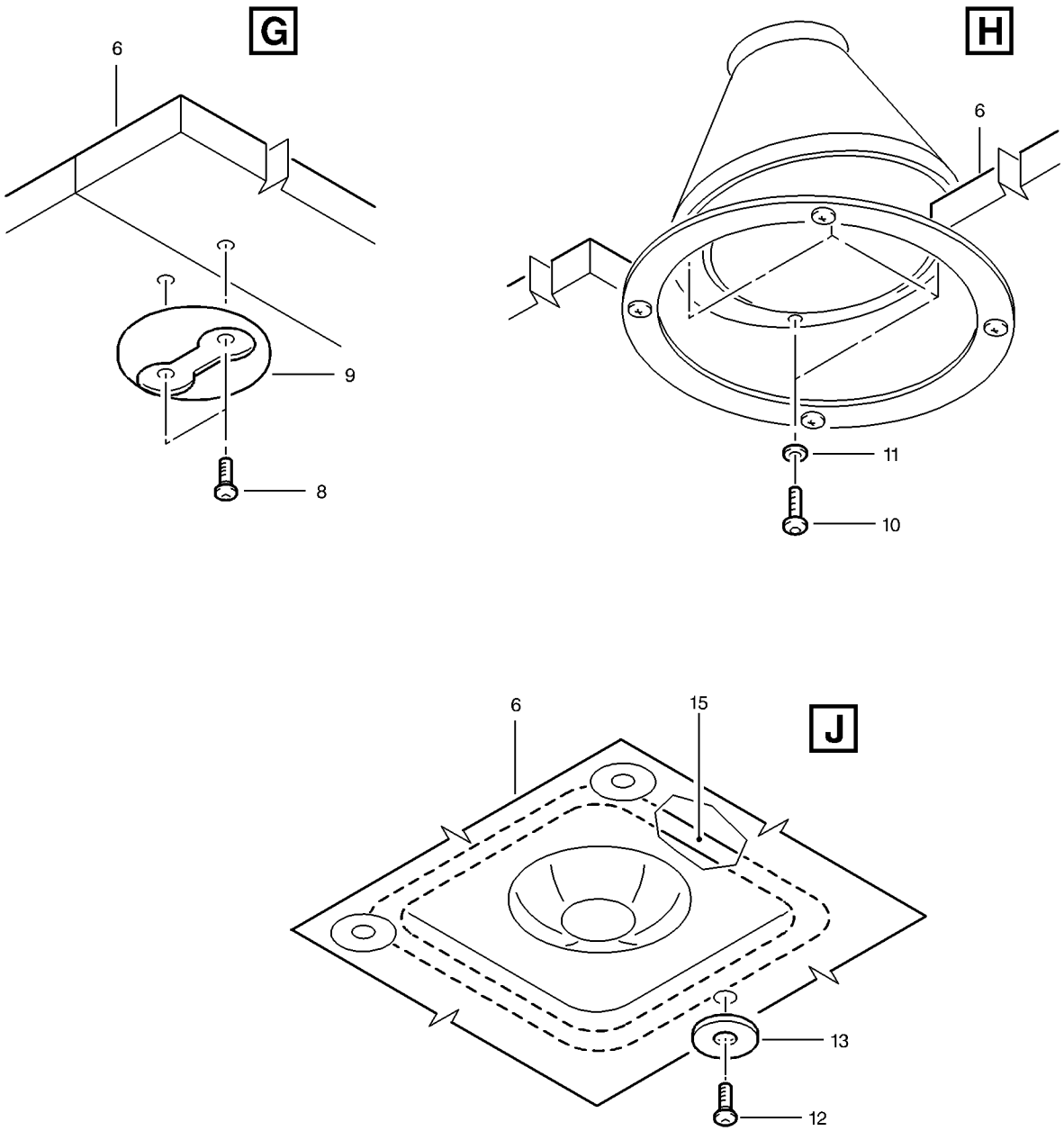



NOTE:

(1) INSTALLED AT OUTER ENDS OF CEILING PANEL GAPS

AFT Cargo Compartment Ceiling Panels
(Sheet 2/3)
Figure 202

R

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| ITEM | MATERIAL N0. 08-005A | DIMENSION mm | DIMENSION in. |
|---|---|---|---|
| 14 | SEALING STRIP | 12.0 x 2.0 | 0.472 x 0.079 |
| 15 | SEALING STRIP | 19.0 x 2.0 | 0.748 x 0.079 |

AFT Cargo Compartment Ceiling Panels
(Sheet 3/3)
Figure 202

R

(2)Install ceiling panels (Ref. Fig. 202).
(a)Position marked ceiling panels into T-section (4) and secure with retainers (5), washers (2) and stud nuts (1).
R (b)Install sealants (16) (Material No. 09-030) to a thickness of 8 mm (0.32 in.) at outer ends of ceiling panel gaps for about 25 mm (1.0 in.).
(c)Clean the contact areas of the adhesive tape with cleaning agent (Material No. 11-002) and let them dry.
(d)Install adhesive tape (3) (Material No. 08-060).
(e)Install tie-down points (9) and screws (8).
(f)Install smoke detector (Ref. 26-16-11, P. Block 401).
(g)Install washers (13) and screws (12) at lamps in cargo compartment area.
(h)Install washers (11) and screws (10) at lamp in door area.

E. Close-Up

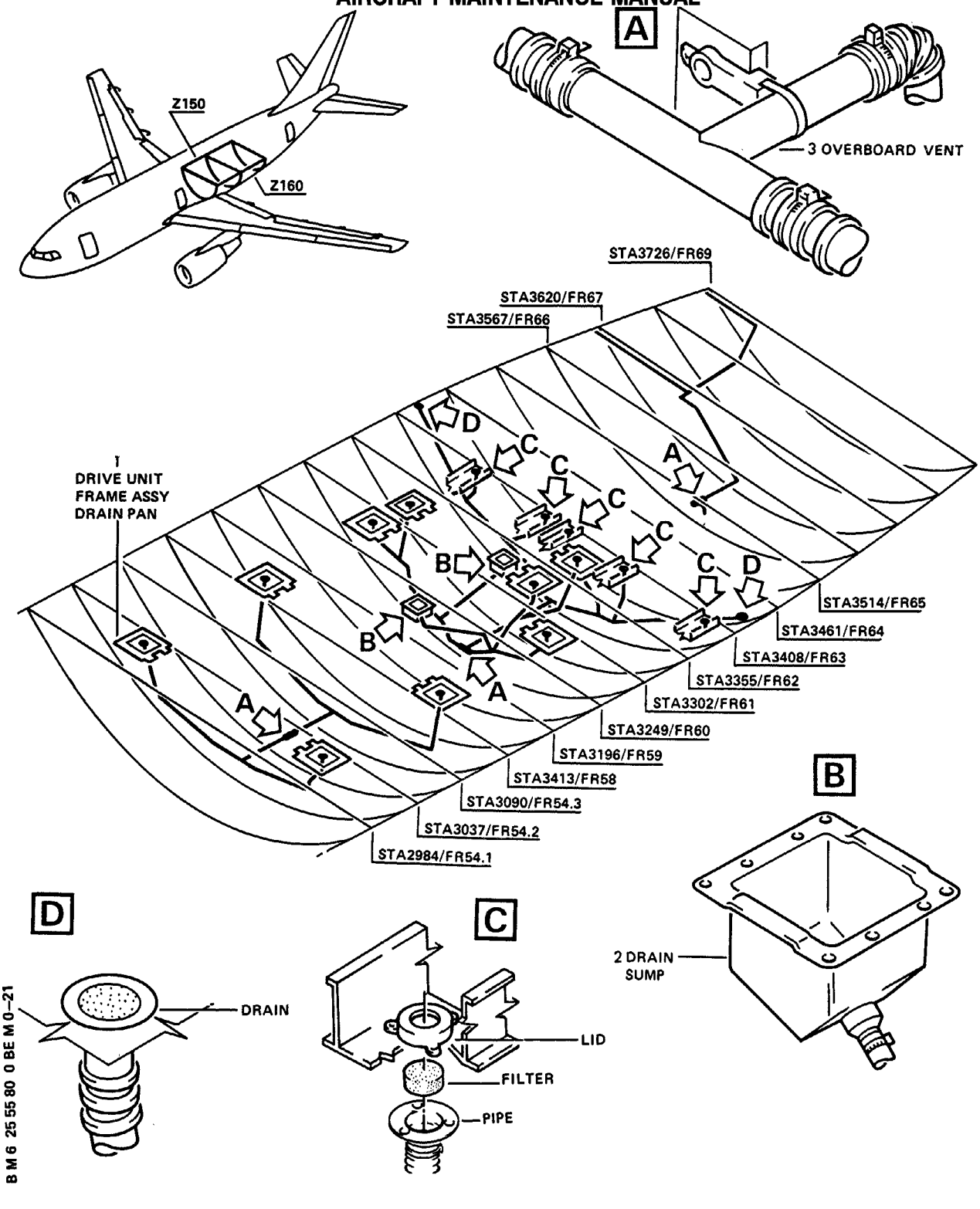
R (1)After installation of the sidewall and ceiling panels, make sure that
R all fasteners are fully tightened.
R (2)After installation, make sure that there are no open gaps or holes
R between the panels and no open gaps or holes between the panels and
R the structure.
R (3)Make sure that working area is clean and clear of tools and miscellaneous items of equipment.
R (4)Remove safety lock and close AFT cargo compartment door (Ref. 52-30-00, P. Block 301).
R (5)Remove access platform.

# AFT CARGO COMPARTMENT DRAIN SYSTEM/ DESCRIPTION AND OPERATION

1. General
The drain system, which is divided into three independent sub-systems, collects rain water and spilt liquids in both aft and bulk cargo compartments. Collected liquids are discharged via drain valves in the fuselage lower shell.

2. Description
The drainage system comprises drain pans, lines and drain valves. The drain pans are located below the drive units and the retractable Y-guides of the cargo loading system, and in the floor panels. Lines and T-pieces connect the drains to intermediate hoses. The lines are attached to the structure by brackets and straps. Connections between drains, lines and T-pieces are secured by straps.

3. Operation
Drain liquids are conducted by the drain lines into the lower shell of the fuselage. At ground level, on unpressurized aircraft, the drain valves in the lower shell of the fuselage are open to allow liquid to escape.
In a pressurized condition the drain valves are closed by cabin pressure (Ref. 51-80-00).
(Ref. Fig. 001)




Aft Cargo Compartment Drain System
Figure 001

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

1.Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Circuit Breaker Safety Clips and Tags |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| E. Material No. 05-005 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-027 | Special Materials (Ref. 20-31-00) |
| G. Material No. 09-005 | Sealants (Ref. 20-31-00) |
| H. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 25-52-22, P. Block 401 | Ball Mats |
| - 25-52-26, P. Block 401 | Power Drive Unit |
| - 25-52-49, P. Block 401 | Retractable Y-Guide |
| - 51-75-10, P. Block 801 | Repair of Paint Coatings |
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 53-10-33, P. Block 401 | AFT Cargo Compartment Floor Panels |

2. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3)Make certain that electronics rack ventilation is correct.
(4)Open AFT cargo compartment door (Ref. 52-30-00, P. Block 1).
(5)Install door actuator safety lock to AFT cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(6)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(7)Open, safety and tag the following circuit breakers:

| | PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|---|
| R | 923VU | MAIN FUSE | 501MY | |
| R | 923VU | CONTROL FUSE | 506MY | |
| | 101VU | ELEC HYD PUMP | 23GX | GEN2/B08 |
| | 133VU | HYDRAULIC/ACCU PRESS CTL AND CARGO | 7GX | 333/T51 |

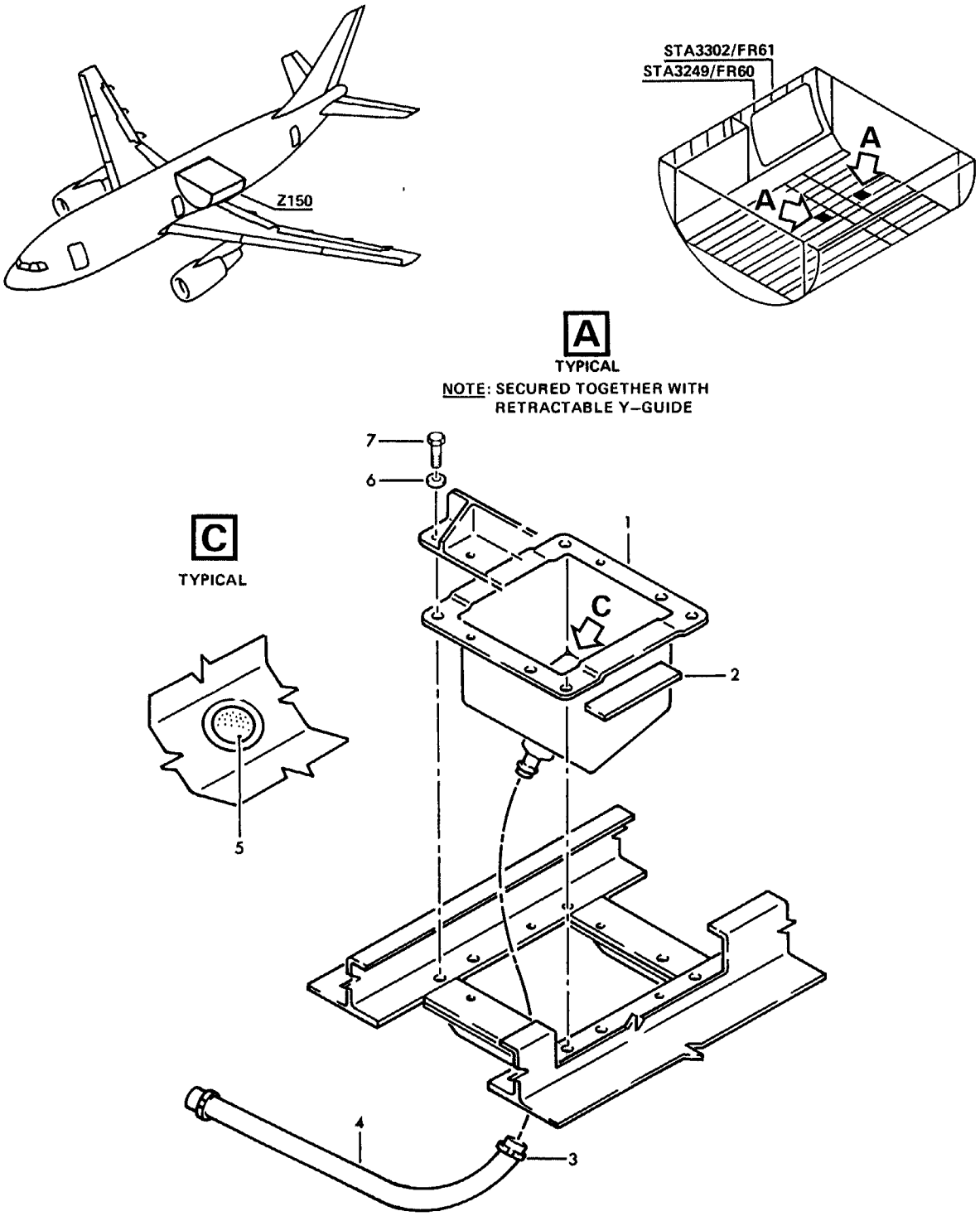
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|

DOOR PUMP

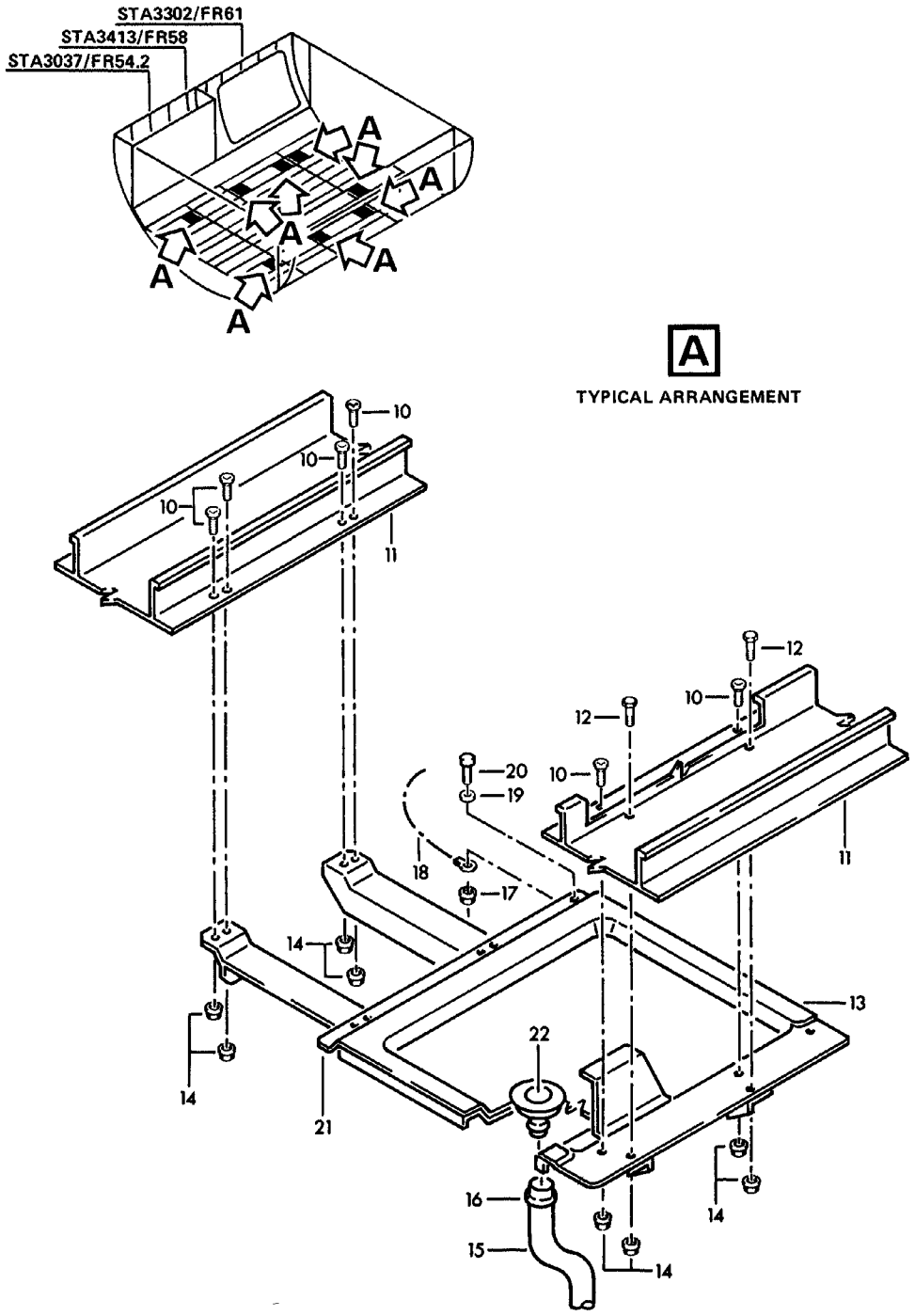
(8)Remove ball mats (Ref. 25-52-22, P. Block 401) and/or AFT cargo compartment floor panels (Ref. 53-10-33, P. Block 401) in the work area as required.
(9)Remove power drive unit (Ref. 25-52-26, P. Block 401) and/or retractable Y-guide (Ref. 25-52-49, P. Block 401) as required to gain access to drain pans and/or drain sumps.
NOTE : Access to filter below retractable drive unit can be gained by hinging drive unit upwards.
(Ref. Fig. 201)

B. Removal
(1)Remove drain sump of retractable Y-guide (Ref. Fig. 201).
NOTE : Removal/Installation is typical for all draim sumps of retractable Y-guides.
(a)Remove tie-wrap (3) from hose (4).
(b)Remove screws (7) and washers (6).
(c)Remove hose (4) from drain sump (1).
(d)Remove drain sump (1) with adhesive tape (Material No. 08-005) (2).
(e)Discard adhesive tape (2).
NOTE : Drain sump (1) and retractable Y-guides are secured with the same screws.
(f)Remove and discard filter (5).
(Ref. Fig. 202)
(2)Remove drain pan of power drive unit (Ref. Fig. 202).
NOTE : Removal/Installation is typical for all drain pans of power drive units.
(a)Remove screw (20) with nut (17) and washer (19). Disconnect bonding strap (18) from power drive unit frame (21).
(b)Remove screws (10), (12) with nuts (14).
NOTE : Record screw length and position. Screw lengths differ.
(c)Carefully ease out drain pan (13) to gain access to hose (15).
(d)Remove tie-wrap (16) and disconnect hose (15) from drain pan (13).
(e)Remove and discard filter (22).
(Ref. Fig. 203)
(3)Remove filter and filter holder (Ref. Fig. 203).
(a)Remove screw (1) from filter holder (2).
(b)Remove filter (3) and discard it.
(4)Remove drain funnel (Ref. Fig. 203).
(a)Cut and remove strap (6) from flexible hose (7).
(b)Discard strap (6).
(c)Pull flexible hose (7) from drain funnel (5).
(d)Remove screws (9) and nuts (8).
(e)Remove drain funnel (5) from drain inlet (4).
NOTE : Removal and installation is the same for all drain funnels.

C. Preparation for Installation

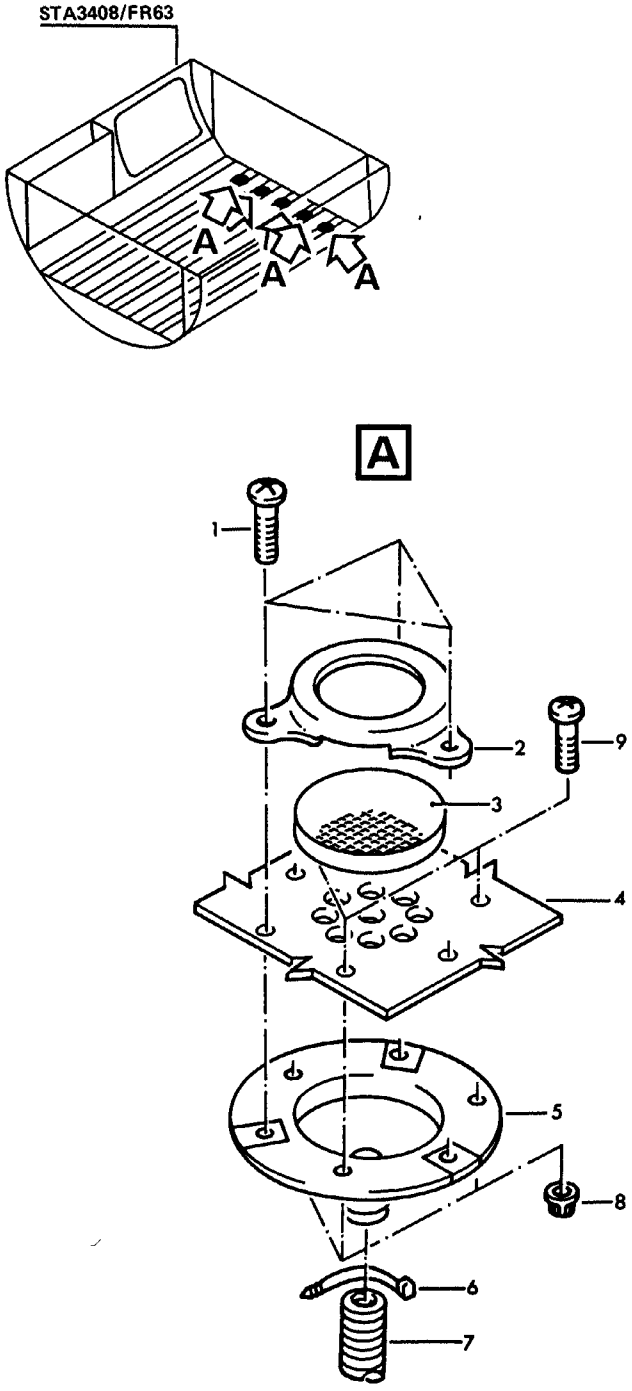



Drain Sump of Retractable Y-Guide
Figure 201




BM6 25 55 80 2 ACMO 00

Drain Pan of Power Unit
Figure 202




BM6 25 55 80 2 AJMO 00

Drain Gully in Roller Track
Figure 203

WARNING : METHYLETHYLKETONE (MATERIAL NO. 11-003) IS DANGEROUS, HIGHLY FLAMMABLE AND A SKIN IRRITANT. WEAR PROTECTIVE GLOVES OR USE A BARRIER CREAM. WASH IMMEDIATELY WITH CLEAN WATER IF SKIN IS SPLASHED WITH SOLVENT. AVOID INHALING FUMES.

(1)Clean mating surfaces of drain pan/drain sump/drain gully and floor structure using Methylethylketone (Material No. 11-003).

D. Installation

(1)Drain sump of retractable Y-guide (Ref. Fig. 201)

(a)Install new filter (5) in drain sump (1).

(b)Apply new adhesive tape (Material No. 08-005) (2) to cleaned surface.

(c)Install drain sump (1), washers (6) and screws (7).

(d)Connect hose (4) to drain sump (1) using new tie-wrap (3).

R (e)Make sure that there is no open gap or hole between the drain sump (1)
R and the roller tracks. Close any open gap or hole with sealant
R (Material No. 09-005).

(2)Drain pan of power drive unit (Ref. Fig. 202).

(a)Install new filter (22) in drain pan (13).

(b)Position drain pan in structure (11) and connect hose (15) to drain pan (13).

(c)Secure with new tie-wrap (16).

(d)Apply anti-corrosion compound (Material No. 05-002) to threads of screws (10, 12 and 20).

(e)Install screws (10 and 12) with nuts (14).

(f)Prepare electrical bonding area (Ref. 20-28-11, P. Block 1).

(g)Connect bonding strap (18) to power drive unit frame (21) using screw (20) with washer (19) and nut (17).

(3)Drain funnel (Ref. Fig. 203)

(a)Position drain funnel (5) below drain inlet (4).

(b)Install screws (9) with nuts (8).

(c)Put a new strap over flexible hose (7).

(d)Put flexible hose (7) on drain funnel (5).

(e)Tighten strap (6).

(4)Filter and filter holder (Ref. Fig. 203)

(a)Put new filter in filter holder (2).

(b)Position filter holder (2) on drain inlet (4).

(c)Install screws (1) in filter holder (2).

E. Close-Up

(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.

(2)Install retractable Y-guide (Ref. 25-52-49, P. Block 401) and/or power drive unit (Ref. 25-52-26, P. Block 401).

(3)Install ball mats (Ref. 25-52-22, P. Block 401) and/or floor panels (Ref. 53-10-33, P. Block 401).

(4)Repair damaged coating of corrosion-preventive compound (Material No. 05-005) and moisture removing oil (Material No. 05-027) as necessary (Ref. 51-75-10, P. Block 801).

NOTE : Do not allow special materials to contact rollers, drive units, latches and filters.

(5)Remove safety clips, tags and close circuit breakers 1MY, 6MY, 7GX and 23GX.

(6)Remove warning notice.
(7)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(8)Close AFT cargo compartment door (Ref. 52-30-00, P. Block 1).
(9)De-energize the aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
(10)Remove access platform.

1. General

**ON A/C 001-005, 101-200,

A. The BULK cargo compartment is located between STA3408/FR63 and STA3779/FR70.

B. The BULK cargo compartment is intended for the transport of luggage, bulk cargo, and livestock in containers and is provided with conditioned air
R and a smoke detection system. The compartment is pressure sealed.
R Pressure leaks through the compartment are not permitted. This would
R result in a decrease in the performance of the fire extinguishing
R system. The BULK cargo compartment door (Z813) is manually operated and opens inwards.

C. To safeguard the aircraft structure against the effects of explosive decompression, the compartment is fitted with a system of decompression panels located in the ceiling and partition panels (Ref. 25-66-00).

**ON A/C 006-100,

A. The BULK cargo compartment is located between STA3408/FR63 and STA3779/FR70.

B. The BULK cargo compartment is intended for the transport of luggage, bulk cargo, and livestock in containers and is provided with conditioned air
R and a smoke detection system. The compartment is pressure sealed.
R Pressure leaks through the compartment are not permitted. This would
R result in a decrease in the performance of the fire extinguishing
R system. The BULK cargo compartment door (Z813) is manually operated and opens inwards.

C. To safeguard the aircraft structure against the effects of explosive decompression, the compartment is fitted with a system of decompression panels located in the partition panels (Ref. 25-66-00).

**ON A/C 101-200,

D. A rearwards extension of the AFT cargo loading system allows for one additional LD1 or LD3 container to be loaded in the BULK cargo compartment. The compartment floor is fitted, for this purpose, with a longitudinal drive unit, ball mats, latches and guides. The power assisted loading/unloading of the container is accomplished by the AFT cargo loading control system. The BULK cargo compartment container must be manually latched in position. The separation net must be removed when the container is installed.

**ON A/C 001-005,

2. Component Location

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Partition Panels (Ref. 53-10-57) | 161/162 | 813 |
| 2 | Ceiling Panels | 161/162 | 813 |
| 3 | Partition Decompression Panels (Ref. 25-66-00) | 161/162 | 813 |
| 4 | Ceiling Decompression Panels (Ref. 25-66-00) | 161/162 | 813 |
| 5 | Sidewall Panels | 161/162 | 813 |
| 6 | Separation Net | 161/162 | 813 |
| 7 | Divider Net | 162 | 813 |
| 8 | Lateral Net | 161/162 | 813 |
| 9 | Door Net | 162 | 813 |
| 10 | Longitudinal Net | 162 | 813 |
| 11 | Crew Baggage Net | 161/162 | 813 |
| 12 | Anchor Plates | 161/162 | 813 |
| 13 | Tie-down Fitting | 161/162 | 813 |
| 14 | Heat Insulation | 161/162 | 813 |

**ON A/C 006-100,

2. Component Location

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Partition Panels (Ref. 53-10-57) | 161/162 | 813 |
| 2 | Ceiling Panels | 161/162 | 813 |
| 3 | Partition Decompression Panels (Ref. 25-66-00) | 161/162 | 813 |
| 4 | Sidewall Panels | 161/162 | 813 |
| 5 | Separation Net | 161/162 | 813 |
| 6 | Divider Net | 162 | 813 |
| 7 | Lateral Net | 161/162 | 813 |
| 8 | Door Net | 162 | 813 |
| 9 | Longitudinal Net | 162 | 813 |
| 10 | Crew Baggage Net | 161/162 | 813 |
| 11 | Anchor Plates | 161/162 | 813 |
| 12 | Tie-down Fitting | 161/162 | 813 |
| 13 | Heat Insulation | 161/162 | 813 |

**ON A/C 101-200,

2. Component Location

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Partition Panels (Ref. 53-10-57) | 161/162 | 813 |
| 2 | Ceiling Panels | 161/162 | 813 |
| 3 | Partition Decompression Panels (Ref. 25-66-00) | 161/162 | 813 |
| 4 | Ceiling Decompression Panels (Ref. 25-66-00) | 161/162 | 813 |
| 5 | Sidewall Panels | 161/162 | 813 |
| 6 | Divider Net | 161/162 | 813 |
| 7 | Separation Net | 162 | 813 |
| 8 | Door Net | 162 | 813 |
| 9 | Longitudinal Net | 162 | 813 |
| 10 | Crew Baggage Net | 161/162 | 813 |
| 11 | Anchor Plates | 161/162 | 813 |
| 12 | Tie-down Fitting | 161/162 | 813 |
| 13 | Heat Insulation | 161/162 | 813 |
| 14 | Ball Mats (Ref. 25-52-00) | 161/162 | 813 |
| 15 | Longitudinal Drive Unit (Ref. 25-52-00) | 161 | 813 |
| 16 | Flight Kit Container | 162 | 813 |

**ON A/C 001-005,

(Ref. Fig. 001)

**ON A/C 006-100,

(Ref. Fig. 002)

**ON A/C 101-200,

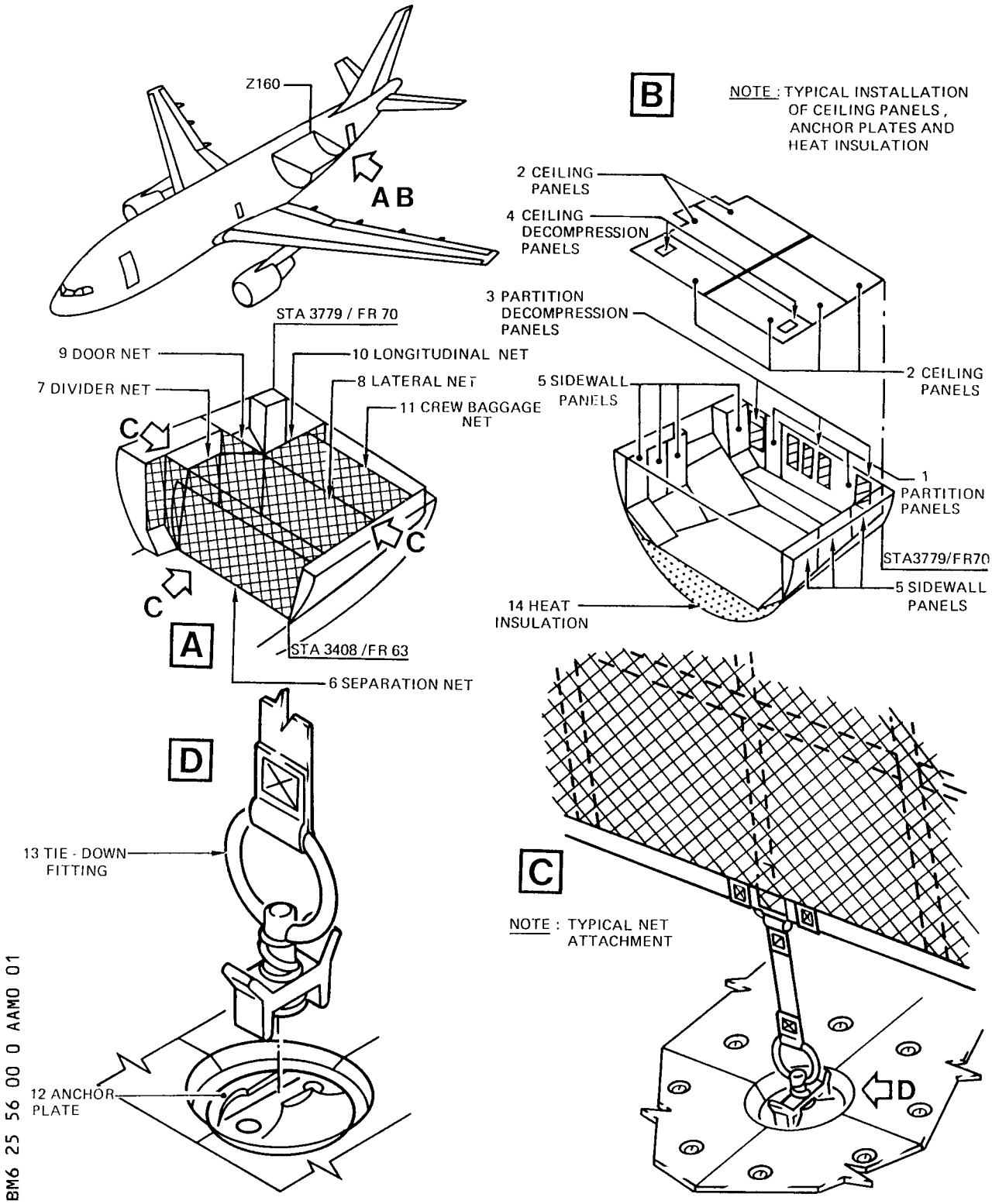
(Ref. Fig. 003)

**ON A/C 001-005, 101-200,

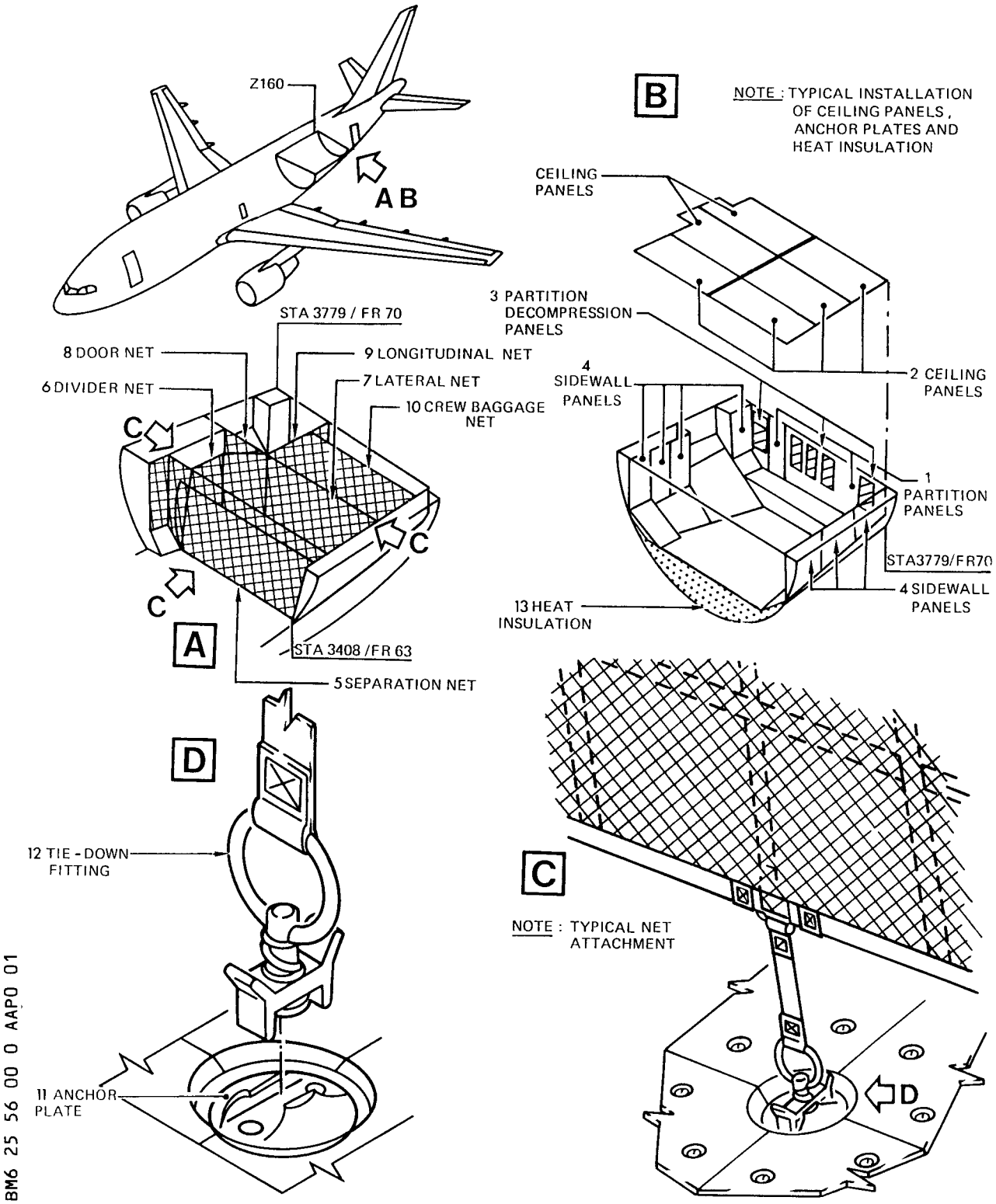
(Ref. Fig. 004)

**ON A/C 006-100,

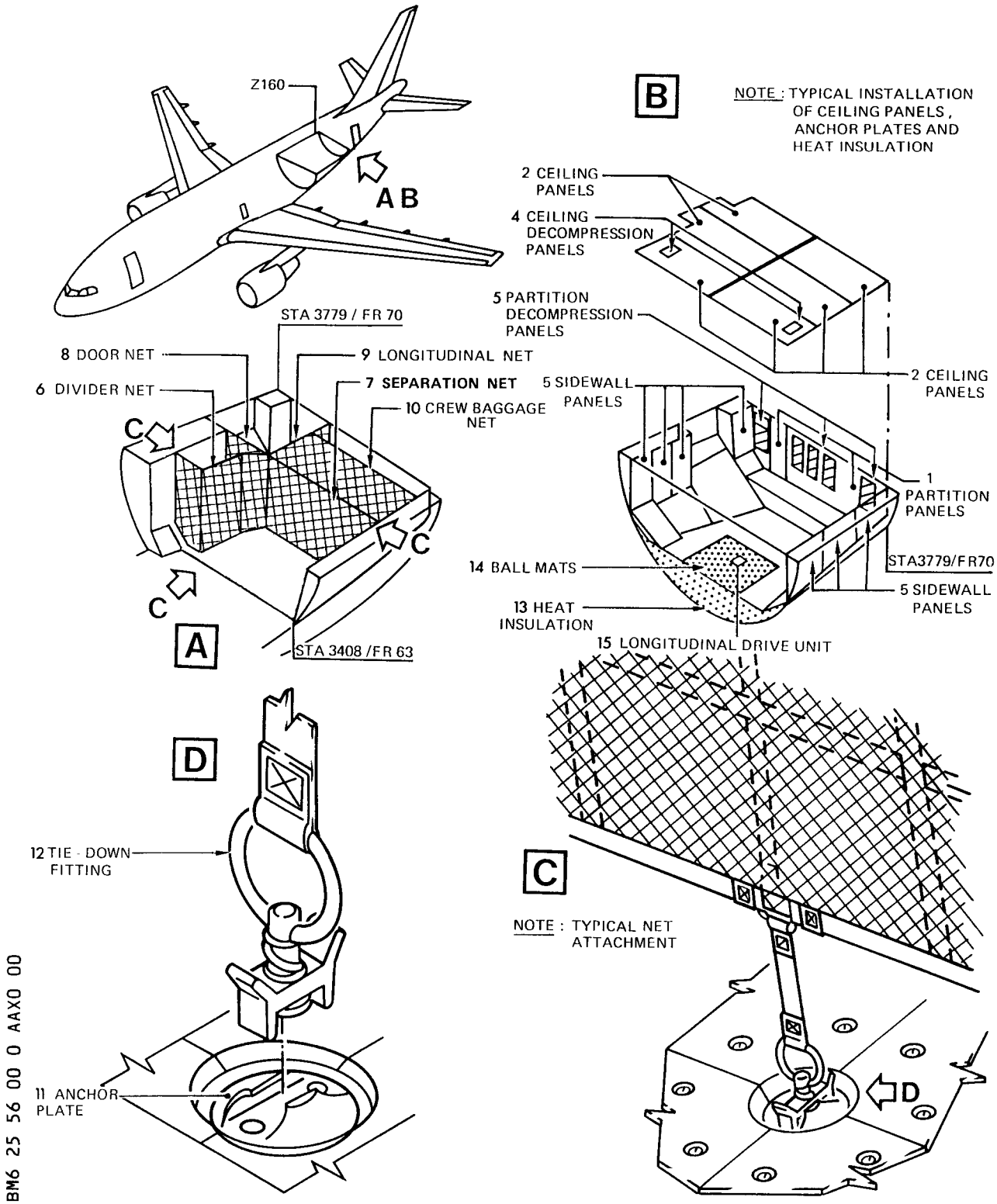
(Ref. Fig. 005)




Typical Arrangement of BULK Cargo Compartment
Figure 001

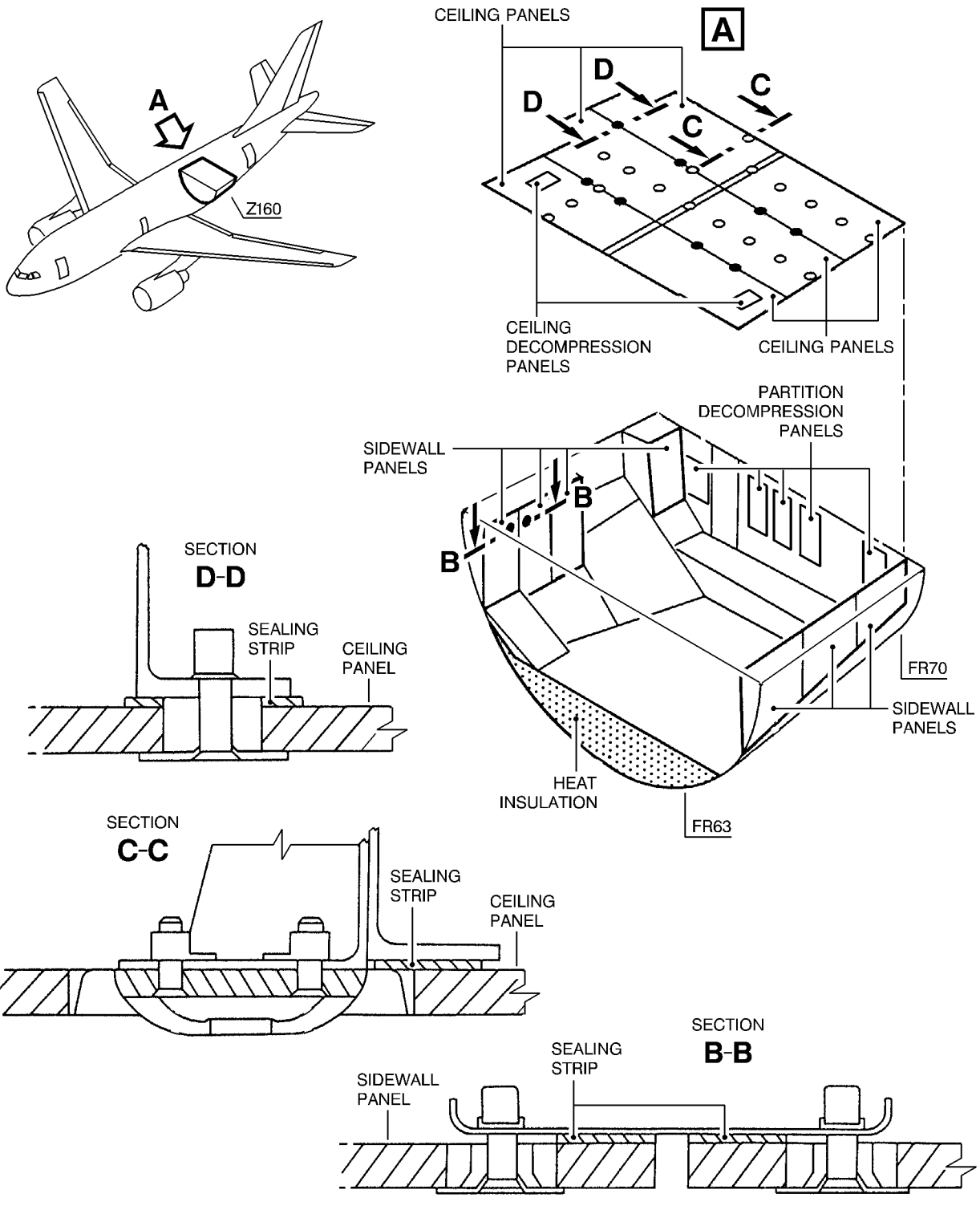



Typical Arrangement of BULK Cargo Compartment
Figure 002



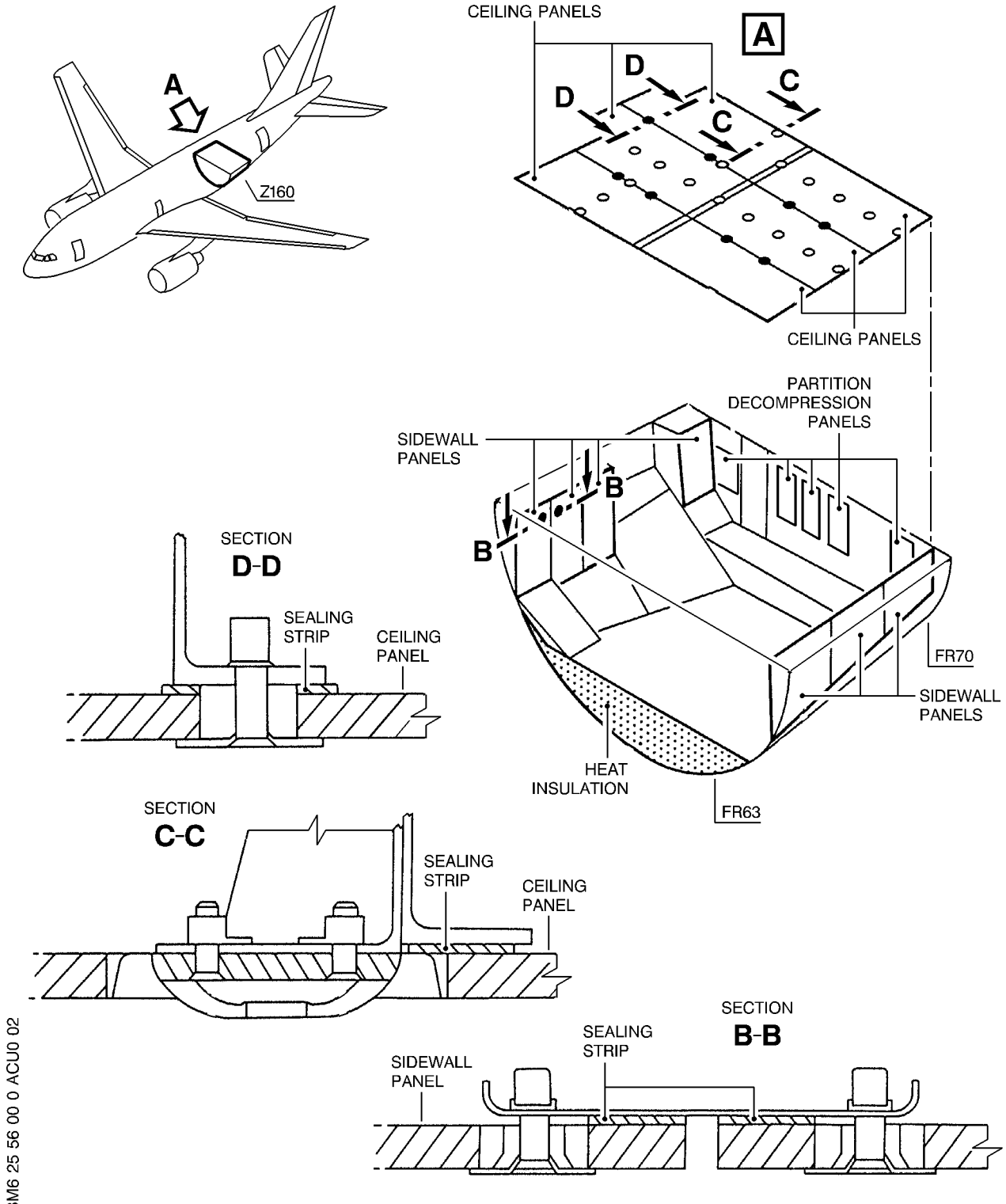

Typical Arrangement of BULK Cargo Compartment
Figure 003

R




Typical Attachment of Ceiling and Sidewall Panels
Figure 004

R




Typical Attachment of Ceiling and Sidewall Panels
Figure 005

R

**ON A/C 001-005,

3. Description and Operation

A. Ceiling Panels (Ref. Fig. 004)
The ceiling panels in the BULK cargo compartment are attached to the ceiling structure between STA3408/FR63 and STA3779/FR70.
They consist of individual panels of sandwich construction which can be removed and installed independently. All ceiling panels are provided with
R sealing strips to ensure the pressure tightness of the compartment for an
R effective performance of the fire extinguishing system. The ceiling panels
R are attached to the ceiling structure by screws.
Decompression panels are incorporated in the foremost ceiling panels.

B. Sidewall Panels (Ref. Fig. 004)
The sidewall panels in the BULK cargo compartment extend from STA3408/FR63 to the partition at STA3779/FR70. They consist of individual panels of sandwich construction which can be removed and installed independently. The
R panels are provided with sealing strips to ensure the pressure tightness
R of the compartment for an effective performance of the fire extinguishing
R system. The sidewall panels are attached to the structure by screws.
Decompression panels are incorporated in the partition panels at STA3779/FR70.

C. Nets (Ref. Fig. 001)
Nets and anchor plates, for securing freight, are situated in the BULK cargo compartment. A separation net separates the BULK cargo compartment from the AFT cargo compartment. This net is covered by reflective screen elements to minimize the escape of conditioned air from the BULK cargo compartment to the AFT cargo compartment. The BULK cargo compartment is subdivided by means of the door-, divider-, lateral-, longitudinal-, separation- and crew baggage nets. The nets consist of webbing, tie-down fittings, hooks, rings and tensioning buckles. Tie-down fittings are located in the webbing for attachment to the anchor plates on the compartment floor, ceiling and sidewalls.

D. Heat Insulation (Ref. Fig. 004)
The complete BULK cargo compartment is heat-insulated. The insulation consists of individual insulation packages positioned in the fuselage structure and attached by hooks on the structure. The insulation packages consist of a glass wool filler encased in an envelope made from aluminium and polyester foil bonded together by woven fabric and resin. The envelope is sealed at the edges.

**ON A/C 006-100,

3. Description and Operation

A. Ceiling Panels (Ref. Fig. 005)
The ceiling panels in the BULK cargo compartment are attached to the ceiling structure between STA3408/FR63 and STA3779/FR70.
They consist of individual panels of sandwich construction which can be removed and installed independently. All ceiling panels are provided with
R sealing strips to ensure the pressure tightness of the compartment for
R an effective performance of the fire extinguishing system. The ceiling
R panels are attached to the ceiling structure by screws.

B. Sidewall Panels (Ref. Fig. 005)
The sidewall panels in the BULK cargo compartment extend from STA3408/FR63 to the partition at STA3779/FR70. They consist of individual panels of sandwich construction which can be removed and installed independently. The
R panels are provided with sealing strips to ensure the pressure tightness
R of the compartment for an effective performance of the fire extinguishing
R system. The sidewall panels are attached to the structure by screws.
Decompression panels are incorporated in the partition panels at STA3779/FR70.

C. Nets (Ref. Fig. 002)
Nets and anchor plates, for securing freight, are situated in the BULK cargo compartment. A separation net separates the BULK cargo compartment from the AFT cargo compartment. This net is covered by reflective screen elements to minimize the escape of conditioned air from the BULK cargo compartment to the AFT cargo compartment. The BULK cargo compartment is subdivided by means of the door-, divider-, lateral-, longitudinal-, separation- and crew baggage nets. The nets consist of webbing, tie-down fittings, hooks, rings and tensioning buckles. Tie-down fittings are located in the webbing for attachment to the anchor plates on the compartment floor, ceiling and sidewalls.

D. Heat Insulation (Ref. Fig. 005)
The complete BULK cargo compartment is heat-insulated. The insulation consists of individual insulation packages positioned in the fuselage structure and attached by hooks on the structure. The insulation packages consist of a glass wool filler encased in an envelope made from aluminium and polyester foil bonded together by woven fabric and resin. The envelope is sealed at the edges.

**ON A/C 101-200,

3. Description and Operation

A. Ceiling Panels (Ref. Fig. 004)
The ceiling panels in the BULK cargo compartment are attached to the ceiling structure between STA3408/FR63 and STA3779/FR70.
They consist of individual panels of sandwich construction which can be removed and installed independently. All ceiling panels are provided with
R sealing strips to ensure the pressure tightness of the compartment for
R an effective performance of the fire extinguishing system. The ceiling
R panels are attached to the ceiling structure by screws.
Decompression panels are incorporated in the foremost ceiling panels.

B. Sidewall Panels (Ref. Fig. 004)
The sidewall panels in the BULK cargo compartment extend from STA3408/FR63 to the partition at STA3779/FR70. They consist of individual panels of sandwich construction which can be removed and installed independently. The
R panels are provided with sealing strips to ensure the pressure tightness
R of the compartment for an effective performance of the fire extinguishing
R system. The sidewall panels are attached to the structure by screws.
Decompression panels are incorporated in the partition panels at STA3779/FR70.

C. Nets (Ref. Fig. 003)
Nets and anchor plates, for securing freight, are situated in the BULK cargo compartment. A separation net separates the BULK cargo compartment from the AFT cargo compartment. This net is covered by reflective screen elements to minimize the escape of conditioned air from the BULK cargo compartment to the AFT cargo compartment. The BULK cargo compartment is subdivided by means of the door-, divider-, longitudinal-, separation- and crew baggage nets. The nets consist of webbing, tie-down fittings, hooks, rings and tensioning buckles. Tie-down fittings are located in the webbing for attachment to the anchor plates on the compartment floor, ceiling and sidewalls.

D. Heat Insulation (Ref. Fig. 004)
The complete BULK cargo compartment is heat-insulated. The insulation consists of individual insulation packages positioned in the fuselage structure and attached by hooks on the structure. The insulation packages consist of a glass wool filler encased in an envelope made from aluminium and polyester foil bonded together by woven fabric and resin. The envelope is sealed at the edges.

E. Cargo Loading System (Ref. 25-52-00)

1. Reason for the Job

NOTE : For repair of cargo compartment linings Ref. 25-00-00, P. Block 801.

A. Removal/Installation of the ceiling panels.

B. Removal/Installation of the sidewall panels LH and RH.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. Material No. 08-060 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| C. Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| D. Material No. 11-002 | Cleaning Agents (Ref. 20-31-00) |
| E. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| R F. Material No. 09-030 | Sealants (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 11-00-00, P. Block 1 | Placards and Markings - General |
| - 25-00-00, P. Block 801 | Equipment / Furnishings - Approved Repairs |
| - 25-66-30, P. Block 201 | BULK Cargo Compartment Decompression Panels |
| - 26-16-11, P. Block 401 | Smoke Detector |
| - 52-30-00, P. Block 201 | Cargo Compartment Doors |

3. Job Set-Up

A. Get Access
(1)Position access platform.
(2)Open BULK cargo compartment door (Ref. 52-30-00, P. Block 301).

B. Procedure
(1)Removal of the ceiling panels
(a)Remove the adhesive tape (8) from the fastener lines.

NOTE : Mark the position of each panel for subsequent installation.

(b)Remove the sealing profile (12) from outer ends of ceiling panel gaps.
(c)Remove the screws (6) and the tie-down points (7).
(d)Unscrew the studs (3) and remove the retainer (4).

NOTE : Do not remove studs (3) and washers (2) from the ceiling panels or the retainer (4). The studs are attached with lockwashers (14) to the ceiling panels and the retainer.

(e)Remove the ceiling panels (1).

(Ref. Fig. 201)

(2)Removal of the sidewall panels LH and RH

(a)Remove the adhesive tape from the fastener lines.

NOTE : Mark the position of each panel for subsequent installation.

(b)Unscrew the studs (12).

NOTE : Do not remove the studs (12) and the washers (11) from the sidewall panels (10). The studs are attached with lockwashers (14) to the sidewall panels.

(c)Remove the sidewall panels (10).

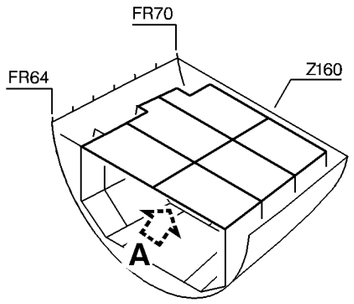
(Ref. Fig. 202)

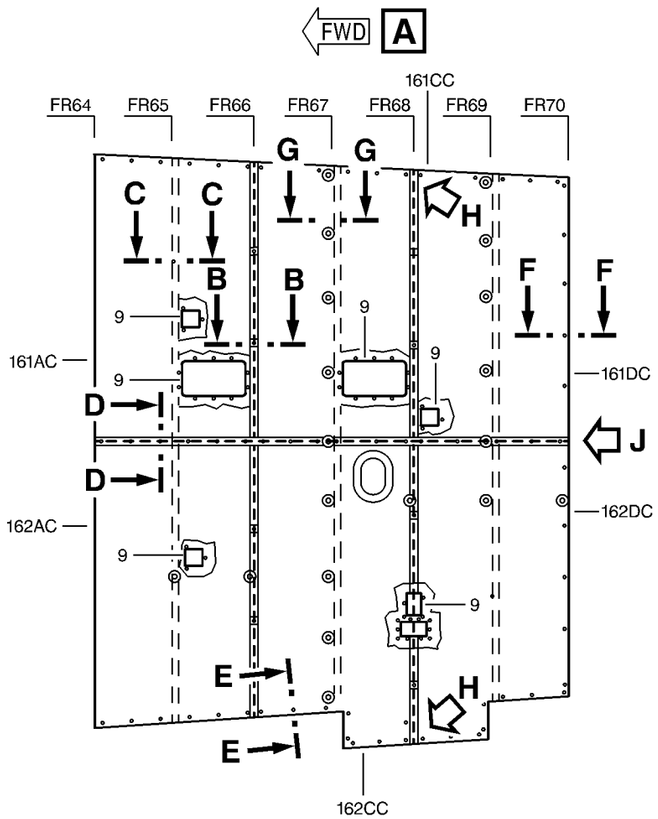
(3)Preparation for Installation

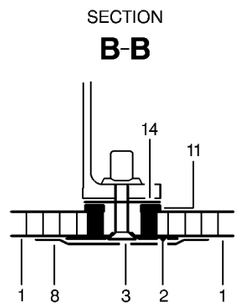
CAUTION : BE CAREFUL WHEN YOU INSPECT/REPLACE THE SEALING OF THE CARGO COMPARMENT LININGS AND FLOOR PANELS. MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED. PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

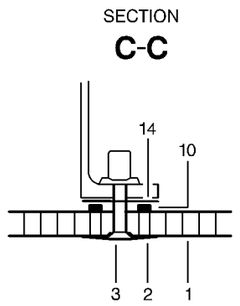
(a)Do an inspection of the sidewall panels and ceiling panels for damage (Ref. Fig. 201, 202).
(b)If necessary, repair the panels (Ref. 25-00-00, P. Block 801).
(c)Do an inspection of the sealing strips (9),(10),(11) and (13) for damage on the sidewall panels (10) and ceiling panels (1).
(d)Make sure that the sealing strips (9),(10),(11) and (13) are not missing.
(e)Replace damaged sealing strips (9),(10),(11) and (13) (Material No. 08-005A) on sidewall panels (10) and ceiling panels (1) and install missing sealing strips.
(f)Clean the contact area of the structure where you install the sidewall panels (10) and ceiling panels (1) using cleaning agent (Material No. 11-002).
(g)Make sure that all lockwashers (14) are installed on the studs (3).
(h)Do an inspection of this structure for integrity and good condition.
(j)If the structure is damaged, replace it.
(k)Make sure that the contact areas of the panels at the structure are plain. Close any open gaps or holes with sealant (Material No. 09-016) and make it plain.
(l)Make sure that after application and drying of sealant, the contact surfaces are still plain. Rework as necessary.
(m)Make sure that placards on replaced or repaired components are in correct positions and in good condition.
(n)If necessary, install new placards (Ref. 11-00-00, P. Block 1).

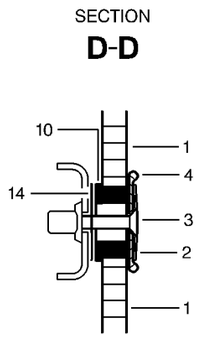
(4)Installation of the ceiling panels (Ref. Fig. 201)

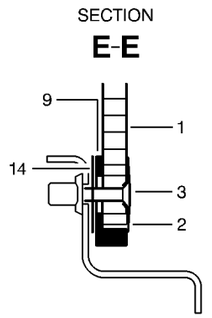


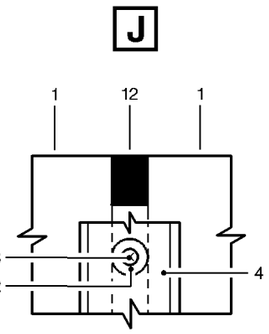



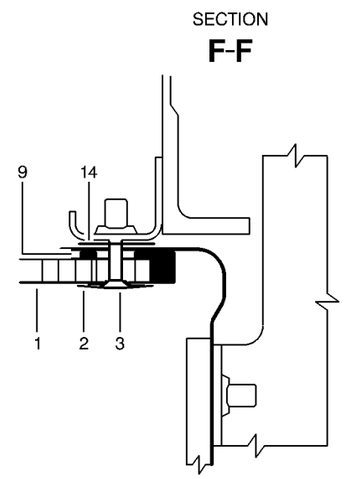



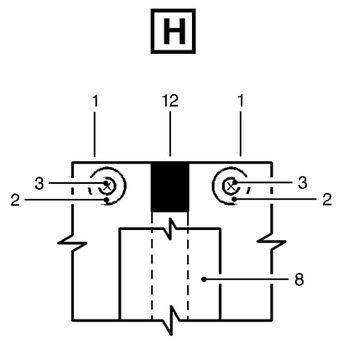



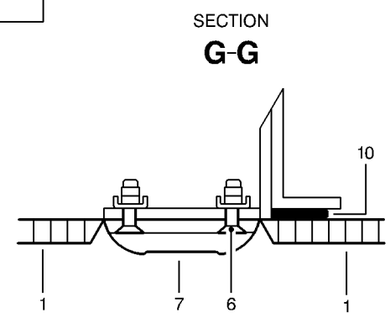




| ITEM | MATERIAL No 08-005A | DIMENSION mm | DIMENSION in. |
|---|---|---|---|
| 9 | SEALING STRIP | 19.0 x 2.0 | 0.748 x 0.079 |
| 10 | SEALING STRIP | 9.0 x 2.0 | 0.354 x 0.079 |
| 11 | SEALING STRIP | 9.0 x 4.0 | 0.354 x 0.157 |

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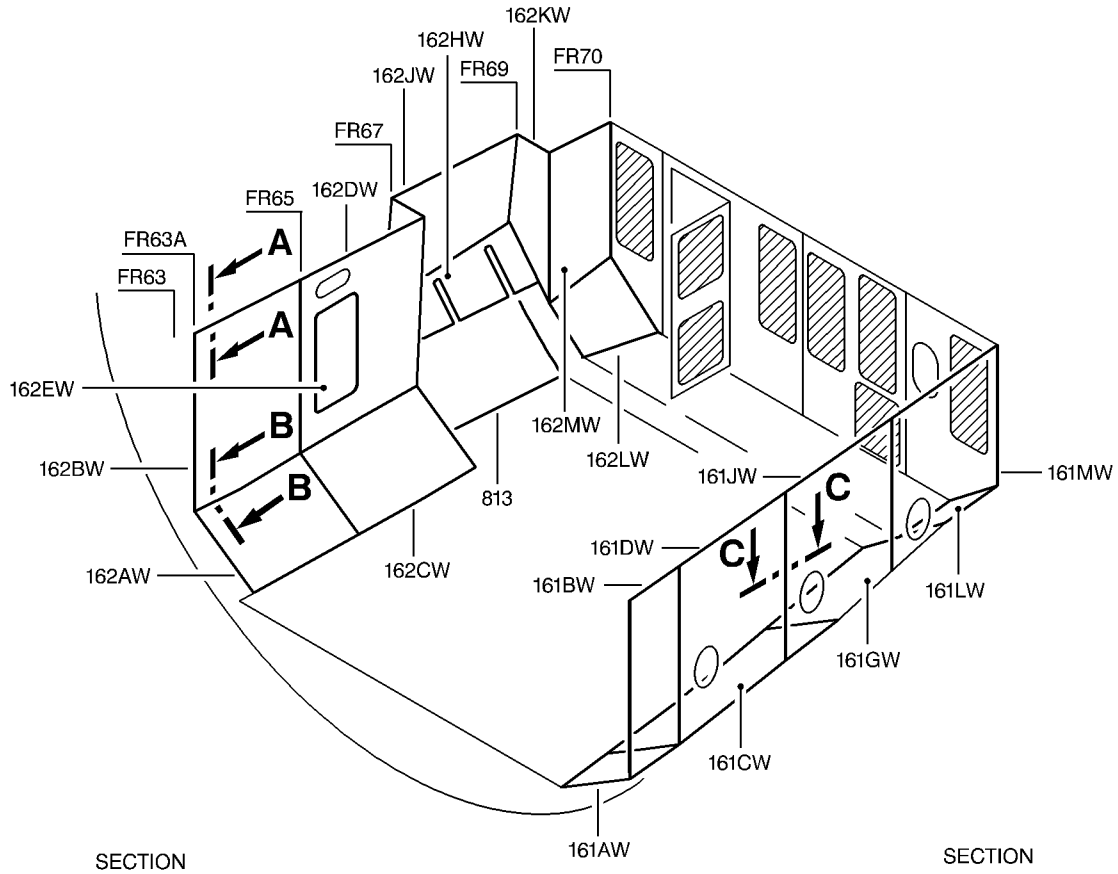
R

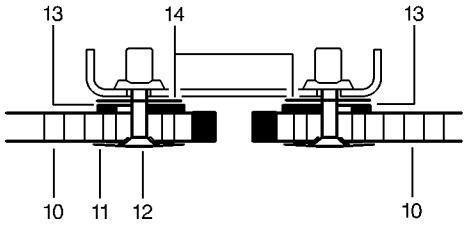
BULK Cargo Compartment Ceiling Panels
Figure 201

EFFECTIVITY: ALL

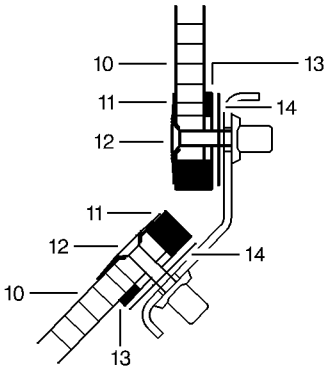
PIA



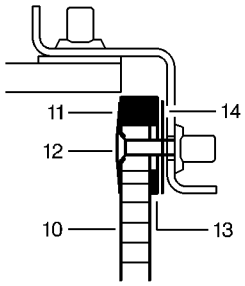

SECTION
C-C




SECTION
B-B




SECTION
A-A




DECOMPRESSION PANELS

| ITEM | MATERIAL No 08-005A | DIMENSION mm | DIMENSION in. |
|---|---|---|---|
| 13 | SEALING STRIP | 19.0 x 2.0 | 0.748 x 0.079 |

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BULK Cargo Compartment Sidewall Panels LH and RH
Figure 202

R

(a)Put the ceiling panels (1) in position.
(b)Make sure that all other attachment holes align with the holes of the structure.
(c)Install retainers (4) with washers (2) and studs (3) and tighten studs (3).
R (d)Install sealants (12) (Material No. 09-030) to a thickness of 8 mm (0.32 in.) at outer ends of ceiling panel gaps for about 25 mm (1.0 in.).
(e)Put the tie-down points (7) in position and install them with the screws (6).
(f)Install new adhesive tape (8) (Material No. 08-060) at the fastener line.

(5)Installation of the sidewall panels LH and RH (Ref. Fig. 202)
(a)Put the sidewall panels (10) in position.
(b)Make sure that all other attachment holes align with the holes of the structure.
(c)Tighten the studs (12).
(d)Install new adhesive tape (Material No. 08-060) at the fastener line.
(e)Make certain that the decompression panels are correctly installed (Ref. 25-66-00, P. Block 201).

D. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(2)Close the BULK cargo compartment door (Ref. 52-30-00, P. Block 301).
(3)Remove access platform.

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.3 m (7.5 ft.) |
| B. Material No. 05-002 | Special Materials (Ref. 20-31-00) |

2. Procedure
(Ref. Fig. 401)

A. Job Set-Up
(1)Put the access platform in position below the BULK cargo-compartment door.
(2)Open the BULK cargo-compartment door and return the exterior control handle to the CLOSED/LOCKED position.
(3)Remove the cargo net(s), if installed, to get access to the tie-down point(s):
(a)Disconnect the tie-down fittings (4) from the tie-down points (2).
(b)Remove the cargo net(s) (5).

B. Removal of the Tie-Down Points

NOTE : The removal procedure for all the tie-down points is the same. Therefore, the removal procedure of only one tie-down point is given here.

(1)Remove the screws (3) from the tie-down point (2).
(2)Remove the tie-down point (2) from the structure (1).

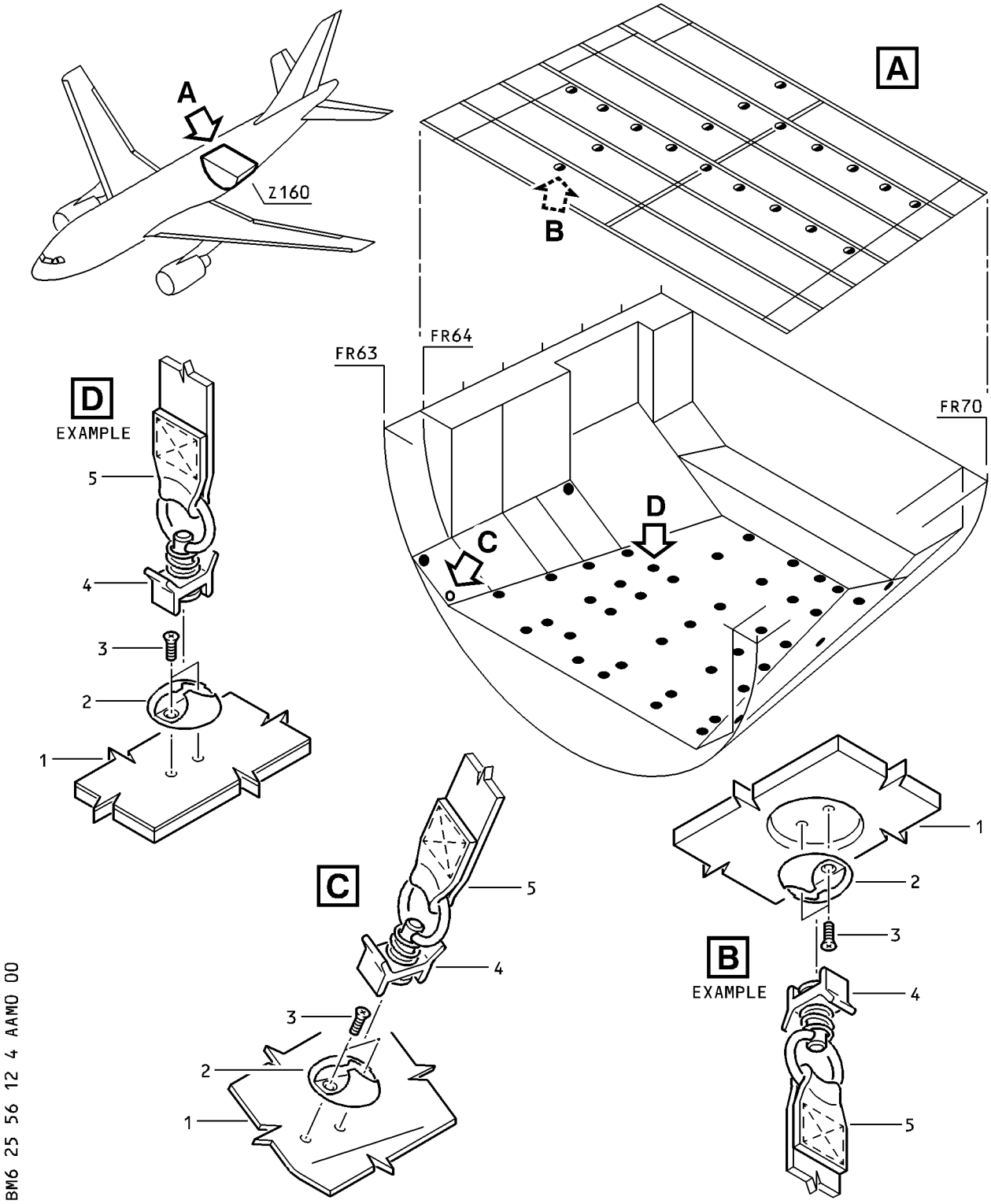
C. Preparation for Installation
(1)Clean the component interface and/or the adjacent area.
(2)Do a visual inspection of the component interface and/or the adjacent area.

D. Installation of the Tie-Down Points

NOTE : The installation procedure for all the tie-down points is the same. Therefore, the installation procedure of only one tie-down point is given here.

(1)Put the tie-down point (2) in position at the structure (1).
(2)Apply the anti-corrosion compound (Material No. 05-002) to the threads of the screws (3).
(3)Install the screws (3) in the tie-down point (2).

E. Close-Up
(1)Make certain that the work area is clean and clear of tools and miscellaneous items of equipment.
(2)Install the cargo net(s), if previously removed:




Tie-Down and Net Attachment Points
Figure 401

(a)Put the cargo net(s) in position at the tie-down points (2).
(b)Connect the tie-down fittings (4) to the tie-down points (2).
(3)Close and lock the BULK cargo-compartment door.
(4)Remove the access platform.

1. General

Emergency equipment is stowed in various locations throughout the flight and passenger compartments.

NOTE: For details of fire fighting and emergency oxygen equipment, refer to Chapters 26 and 35 respectively.

A. Passenger Compartment Escape Facilities (Ref. 25-61-20)

The passenger/crew doors and emergency exit doors are fitted with inflatable escape slides to facilitate the evacuation off all passengers and crew in the shortest time. As an option, all passenger/crew doors can be equipped with slide rafts instead of escape slides. Emergency descent devices are located in the flight compartment for crew evacuation through open flight compartment windows.

B. Floatation and Survival Equipment (Ref. 25-62-00)

Individual inflatable survival equipment for passengers and crew members is stowed in easily accessible positions in the flight and passenger compartments.

C. Evacuation Signaling Equipment (Ref. 25-63-00)

Evacuation signaling equipment, providing acoustic and visual warnings is installed throughout the aircraft, and is operated by the flight crew should evacuation of the aircraft become necessary.

D. Rapid Decompression System (Ref. 25-66-00)

To safeguard the aircraft structure against the effects of explosive decompression, the passenger compartment and cargo compartments are fitted with a system of decompression panels.

1. Emergency Equipment - General Check
   NOTE : For details of emergency oxygen and fire fighting equipment refer to chapters 35 and 26 respectively.

2. Check of Portable Emergency Locator Beacon
   NOTE : Portable emergency locator beacons are provided within the passenger compartment.
   A. Procedure
      (1)Remove emergency locator beacons from the mounting brackets.
      (2)Make certain that beacon container and the attached equipment is not damaged.
      CAUTION : DO NOT REMOVE THE ANTENNA HOLDER. THE EMERGENCY LOCATOR BEACON TRANSMITS AUTOMATICALLY WHEN ANTENNA RELEASED.
      (3)Check antenna and make certain that antenna, antenna holder and antenna spring assembly are not damaged.
      (4)Check operating instruction placard.
      (5)Make certain that placard is not damaged.
      (6)Check the tow-line assembly.
      (7)Make certain that the tow-line is not damaged, and that one end is attached to the tow-line attach assembly.
         NOTE : If one or more of the above inspections are not satisfactory, change the emergency locator beacon.
      (8)Check if life of battery service expired, install a new battery.
      (9)Check beacon mounting bracket, and replace if damaged.

   B. Close-Up
      (1)Install emergency locator beacons at the mounting brackets.
      (2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

3. Replacement of Megaphone Batteries
   NOTE : Megaphones are provided within the passenger compartment.
   A. Procedure
      (1)Remove megaphones from the mounting brackets.
      (2)Apply light pressure on bottom of battery cartridge, installed in the megaphone handle.
      (3)Remove thumbscrew.
      (4)Remove battery cartridge from the handle.
      (5)Remove and discard batteries.
      (6)Install new batteries.
         NOTE : Make certain that batteries are installed in the correct direction of polarity, as shown on the battery cartridge.
      (7)Install battery cartridge in the handle.
      (8)Apply light pressure on the bottom of the battery cartridge.
      (9)Install and tighten the thumbscrew.

4. Megaphone Operational Test

   A. Procedure

| ACTION | RESULT |
|---|---|
| 1. Hold the megaphone with one hand and put the mouthpiece against your lips: | From the megaphone: |
| - push the trigger-button and speak into the mouthpiece. | - listen for a -click- and make sure that your voice is amplified and that it is loud and clear. |
| - release the trigger-button. | - listen for a -click- and make sure that the amplification of your voice stops.<br><br>NOTE : A ringing sound is normal when you operate the megaphone in a small compartment or empty room. Sound reverberation causes this. |

NOTE : The adjustment procedure is only necessary if the operational test is negative.

B. Adjustment Procedure
(1)Remove rubber plug from megaphone horn assembly at the rear of the megaphone handle.
(2)Put a small screwdriver into rubber plug insert hole and carefully engage the volume potentiometer adjustment head.
(3)Push trigger-button and make these adjustment:
(a)Turn potentiometer adjustment head clockwise with the screwdriver, to increase amplifier sensitivity and feedback gain.
NOTE : Feedback is the supply of some of the output signals from the amplifier to its input. This can produce very high noise in an enclosed area.
(b)Slowly turn potentiometer adjustment counterclockwise until the noise from the feedback stops.
(4)Release the trigger-button.
(5)Install rubber plug in the horn assembly.

C. Close-Up
(1)Install megaphones at the mounting brackets.
(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

5. Emergency Equipment

A. Check for completeness and correct location of emergency equipment in flight and passenger compartment.
NOTE : The following listed equipment and referenced illustrations represent the standard furnished aircraft version and are to be used

only as an equipment location guide.

(1)Flight Compartment Emergency Equipment

(Ref. Fig. 601)

| ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| 1 | Emergency Descent Devices | 4 |
| 2 | Crew Life Vests | 4 |
| 3 | Flashlights | 2 |
| 4 | Crash Axe | 1 |
| 5 | Fire Protective Gloves | 1 Pair |

(2)Passenger Compartment Emergency Equipment

NOTE : Passenger life vests are located under each seat.

**ON A/C 001-003,

(Ref. Fig. 602)

**ON A/C 004-004,

(Ref. Fig. 603)

R **ON A/C 101-104,

(Ref. Fig. 604)

**ON A/C 005-100,

(Ref. Fig. 605)

R **ON A/C 105-200,

R (Ref. Fig. 606)

**ON A/C 001-003,

| ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| 1 | Life Vests - Demo | 5 |
| 2 | Life Vests - Child | 10 |
| 3 | Life Vests - Crew | 11 |
| 4 | Life Vests - Spare | 12 |
| 5 | Crash Axe | 1 |
| 6 | Megaphones | 2 |
| 7 | First Aid Kits | 4 |
| 8 | Flashlights | 11 |
| 9 | Radio Beacon | 2 |
| 10 | Safety Barrier Strap | 5 |
| 11 | Overwing Escape Slides | 2 |
| 12 | Dual Escape Slides/Rafts | 4 |
| 13 | Fire Extinguisher | 6 |

| ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| 14 | Portable Oxygen Bottle | 5 |
| 15 | Full Face Smoke Mask | 5 |
| 16 | Extension Belt | 10 |
| 17 | Oxygen Mask - Demo | 5 |
| 18 | Manual Release Tool | 5 |
| 19 | Oxygen Mask | 5 |

**ON A/C 004-004,

| ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| 1 | Life Vests - Demo | 5 |
| 2 | Life Vests - Child | 10 |
| 3 | Life Vests - Crew | 11 |
| 4 | Life Vests - Spare | 12 |
| 5 | Crash Axe | 1 |
| 6 | Megaphones | 2 |
| 7 | First Aid Kits | 4 |
| 8 | Flashlights | 11 |
| 9 | Radio Beacon | 2 |
| 10 | Safety Barrier Strap | 5 |
| 11 | Overwing Escape Slides | 2 |
| 12 | Dual Escape Slides/Rafts | 4 |
| 13 | Fire Extinguisher | 6 |
| 14 | Portable Oxygen Bottle | 5 |
| 15 | Smoke Hood | 6 |
| 16 | Extension Belt | 10 |
| 17 | Oxygen Mask - Demo | 5 |
| 18 | Manual Release Tool | 5 |
| 19 | Oxygen Mask | 5 |
| 20 | Life Line | 2 |

R **ON A/C 101-104,

| ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| 1 | Spare Life Vest | 12 |
| 2 | Crew Life Vest | 12 |
| 3 | Fire Extinguisher H2O | 3 |
| 4 | Megaphones | 2 |
| 5 | First Aid Kit | 3 |
| 6 | Flashlight | 12 |
| 7 | Light Adjustment Tool | 1 |
| 8 | Fire Extinguisher | 3 |
| 9 | Portable Oxygen Bottle | 12 |

| ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| 10 | Oxygen Mask | 12 |
| 11 | Life Line | 2 |
| 12 | Smoke Hood | 4 |
| 13 | Manual Release Tool | 5 |
| 14 | Dry Battery | 40 |
| 15 | Single Escape Slide | 2 |
| 16 | Slide/Raft | 4 |

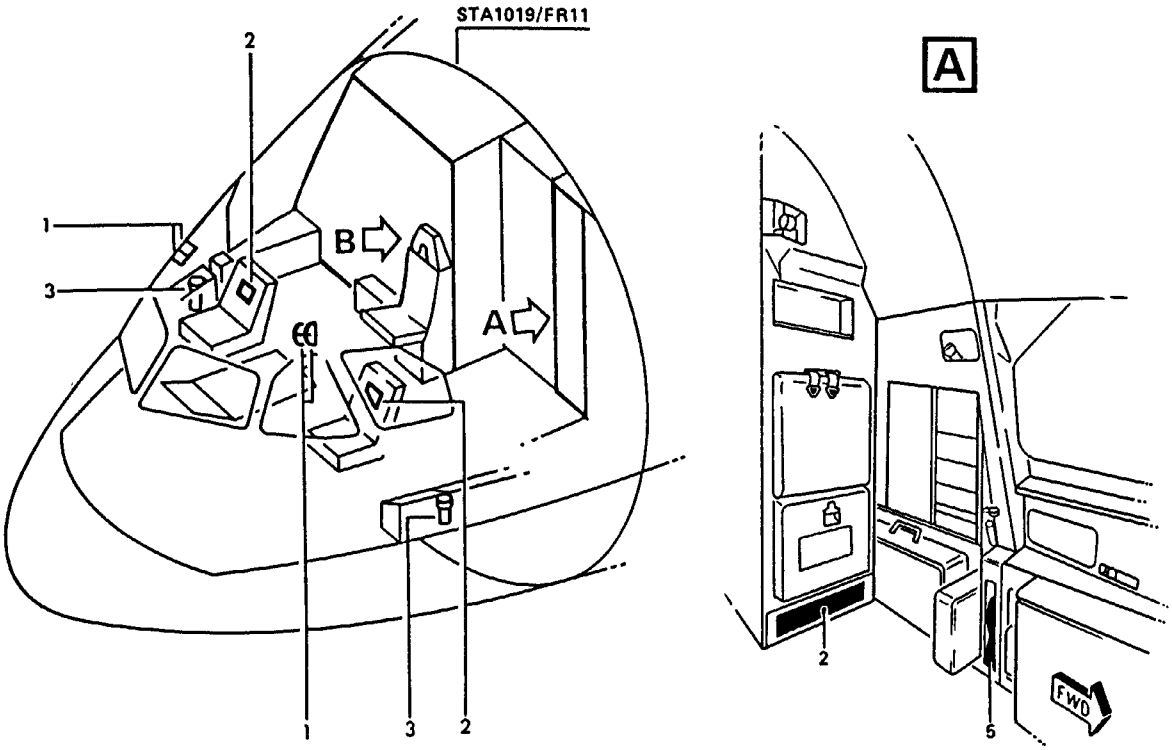
**ON A/C 005-100,

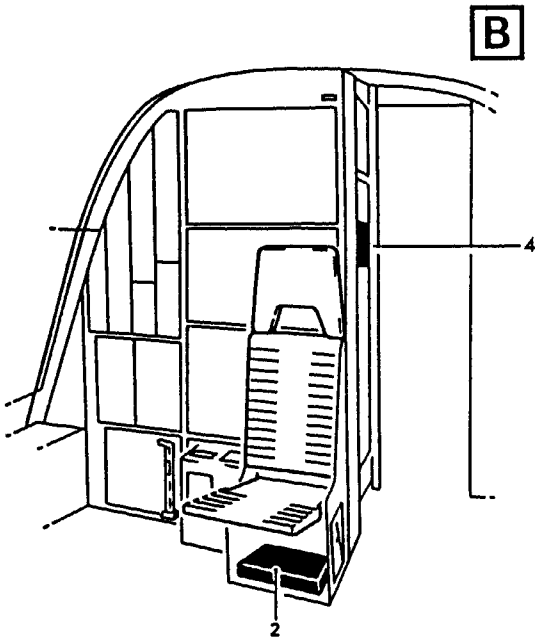
| ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| 1 | Life Vests - Demo | 5 |
| 2 | Life Vests - Infant | 10 |
| 3 | Life Vests - Crew | 11 |
| 4 | Life Vests - Spare | 12 |
| 5 | Crash Axe | 1 |
| 6 | Megaphones | 2 |
| 7 | First Aid Kits | 4 |
| 8 | Flashlights | 12 |
| 9 | Radio Beacon | 2 |
| 10 | Seat Belt - Infant | 8 |
| 11 | Overwing Escape Slides | 2 |
| 12 | Dual Escape Slides/Rafts | 4 |
| 13 | Fire Extinguisher | 6 |
| 14 | Portable Oxygen Bottle | 5 |
| 15 | Smoke Hood | 6 |
| 16 | Extension Belt | 9 |
| 17 | Oxygen Mask - Demo | 5 |
| 18 | Manual Release Tool | 5 |
| 19 | Oxygen Mask | 5 |
| 20 | Life Line | 2 |

R **ON A/C 105-200,

| R ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| R 1 | Spare Life Vest | 37 |
| R 2 | Crew Life Vest | 12 |
| R 3 | Fire Extinguisher H2O | 3 |
| R 4 | Megaphones | 2 |
| R 5 | First Aid Kit | 2 |
| R 6 | Flashlight | 12 |
| R 7 | Doctors Kit | 1 |
| R 8 | Fire Extinguisher | 3 |

| ITEM | EQUIPMENT | QUANTITY |
|---|---|---|
| 9 | Portable Oxygen Bottle | 12 |
| 10 | Oxygen Mask | 12 |
| 11 | Life Line | 1 |
| 12 | Smoke Hood | 4 |
| 13 | Manual Release Tool | 5 |
| 14 | Dry Battery | 40 |
| 15 | Emergency BEACON | 2 |
| 16 | Demo Life Vest | 5 |
| 17 | Emergency Axe | 2 |
| 18 | Demo Oxygen Mask | 5 |
| 19 | Extension Belt | 4 |
| 20 | Fire Protective Gloves | 1 |
| 21 | Children Life Vest | 5 |
| 22 | Overwing Escape Slide | 2 |
| 23 | Slide/Raft | 4 |

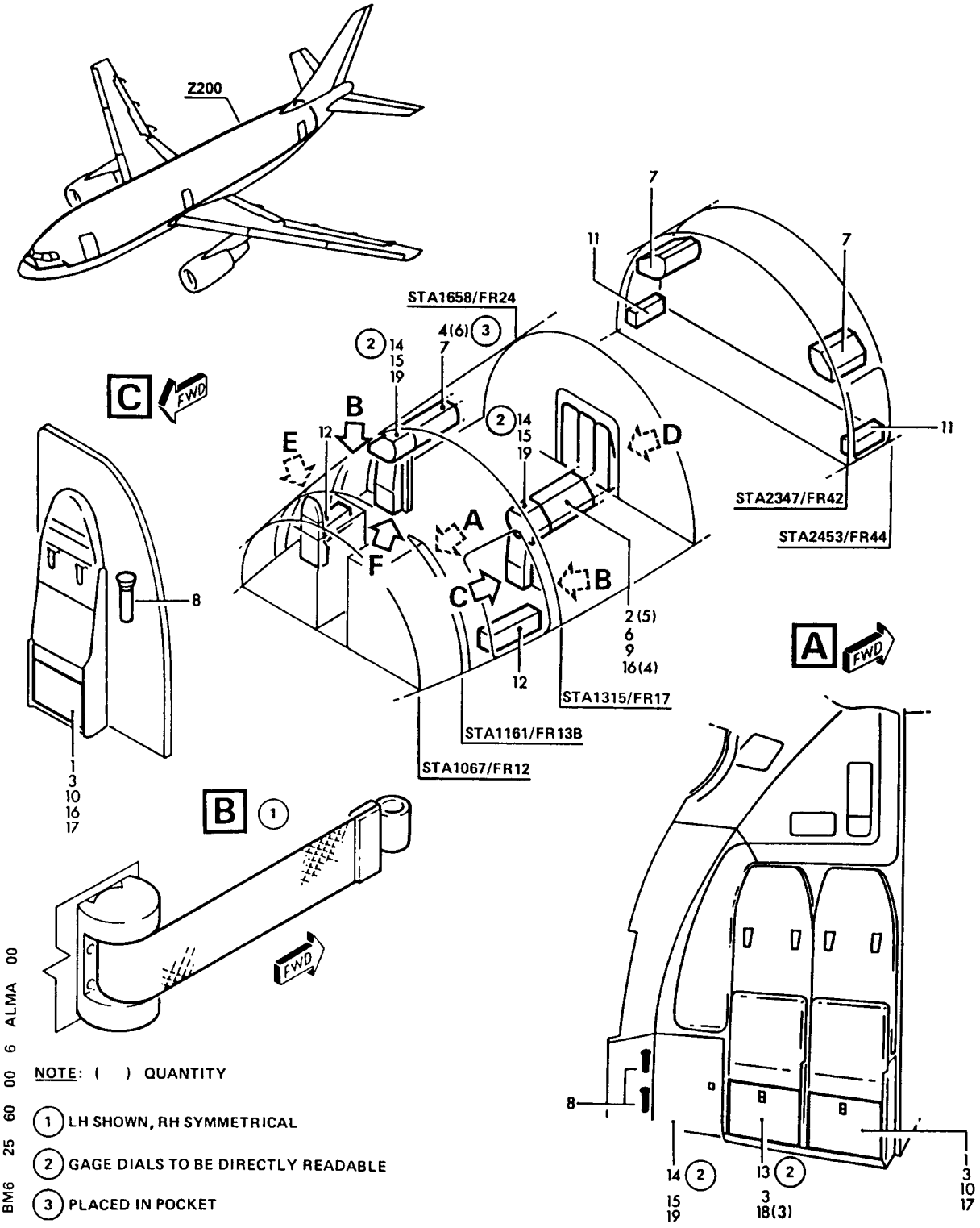


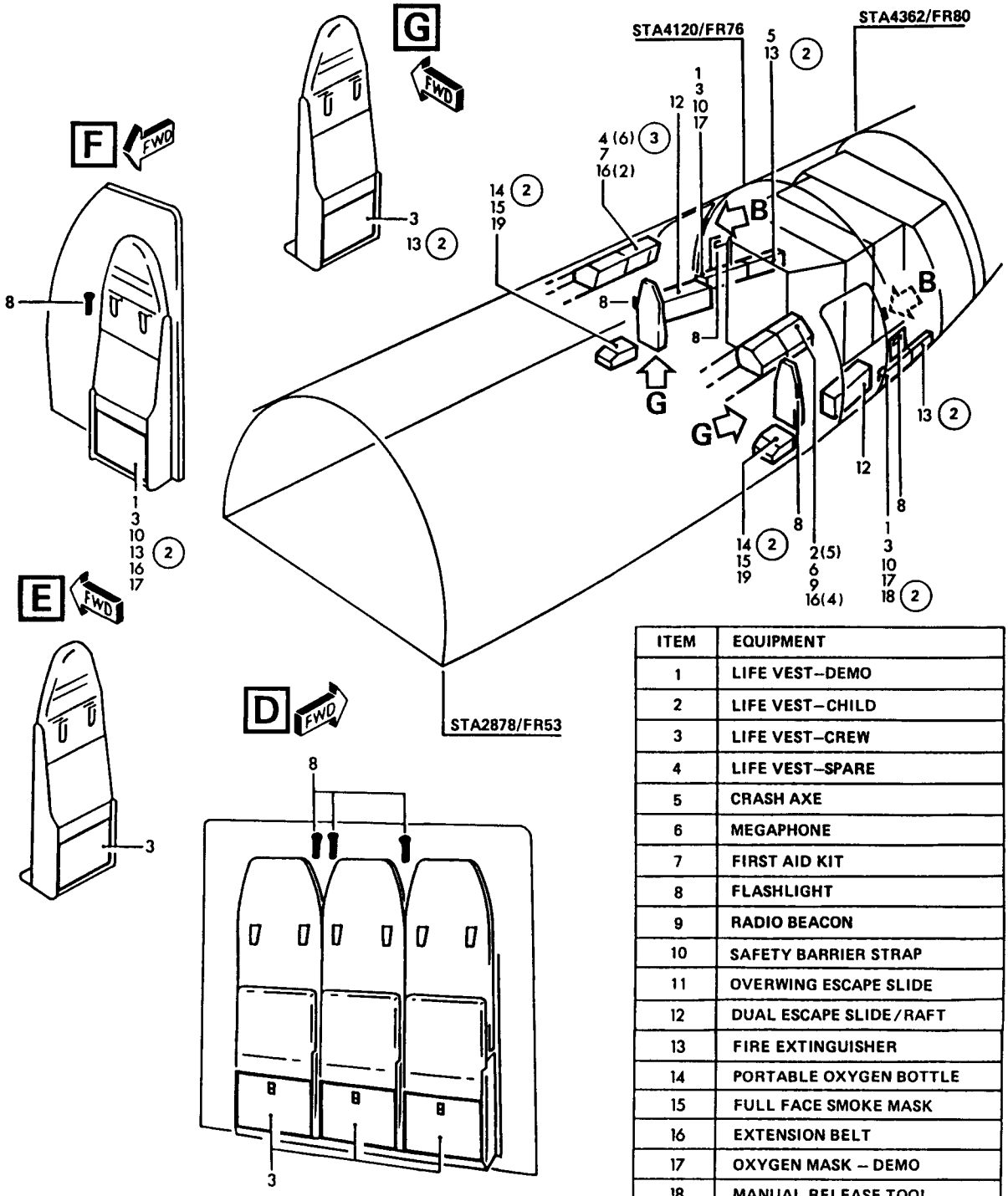

| ITEM | EQUIPMENT |
|---|---|
| 1 | EMERGENCY DESCENT DEVICES |
| 2 | CREW LIFE VESTS |
| 3 | FLASHLIGHTS |
| 4 | CRASH AXE |
| 5 | FIRE PROTECTIVE GLOVES |

BM6 25 60 00 6 ADMO 01

Typical Flight Compartment Emergency
Equipment Locations
Figure 601




Passenger Compartment Emergency Equipment
Location (Sheet 1/2)
Figure 602

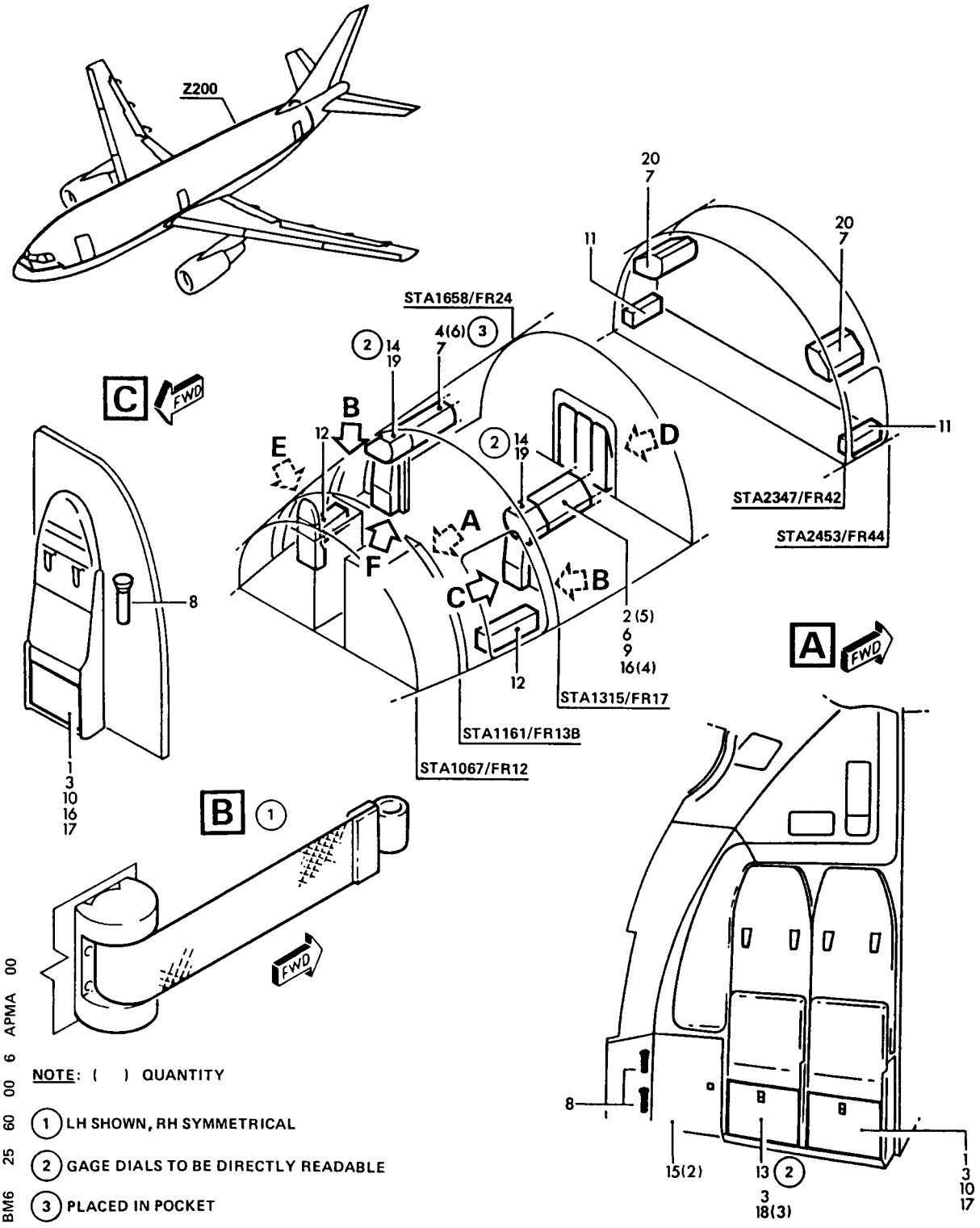



| ITEM | EQUIPMENT |
|---|---|
| 1 | LIFE VEST–DEMO |
| 2 | LIFE VEST–CHILD |
| 3 | LIFE VEST–CREW |
| 4 | LIFE VEST–SPARE |
| 5 | CRASH AXE |
| 6 | MEGAPHONE |
| 7 | FIRST AID KIT |
| 8 | FLASHLIGHT |
| 9 | RADIO BEACON |
| 10 | SAFETY BARRIER STRAP |
| 11 | OVERWING ESCAPE SLIDE |
| 12 | DUAL ESCAPE SLIDE/RAFT |
| 13 | FIRE EXTINGUISHER |
| 14 | PORTABLE OXYGEN BOTTLE |
| 15 | FULL FACE SMOKE MASK |
| 16 | EXTENSION BELT |
| 17 | OXYGEN MASK – DEMO |
| 18 | MANUAL RELEASE TOOL |
| 19 | OXYGEN MASK |

NOTE: PASSENGER LIFE VESTS LOCATED UNDER EACH SEAT

BM6 25 60 00 6 ALMM 00

Passenger Compartment Emergency Equipment
Location (Sheet 2/2)
Figure 602




NOTE: ( ) QUANTITY

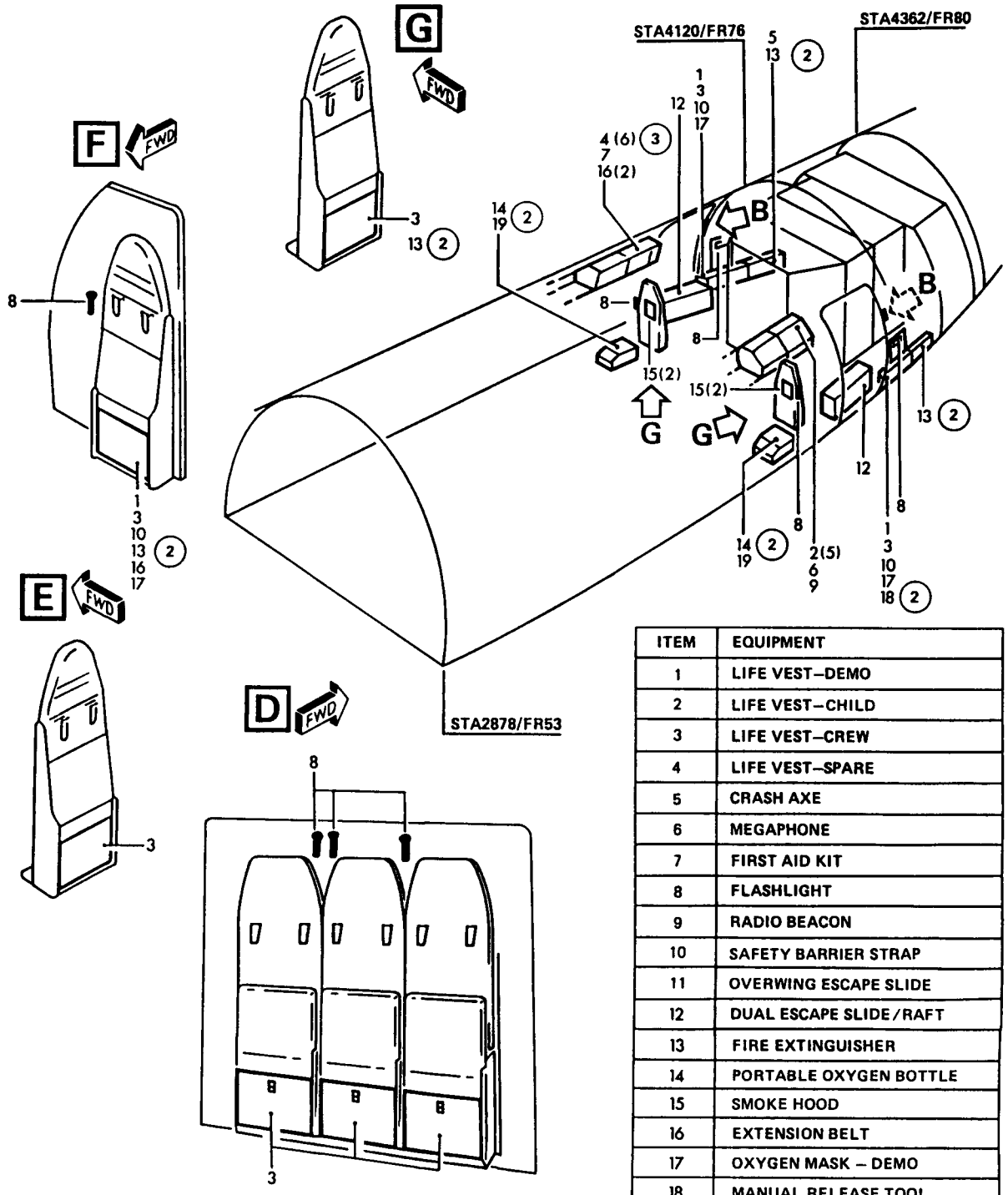
(1) LH SHOWN, RH SYMMETRICAL

(2) GAGE DIALS TO BE DIRECTLY READABLE

(3) PLACED IN POCKET

BM6 25 60 00 6 APMA 00

Passenger Compartment Emergency Equipment
Location (Sheet 1/2)
Figure 603

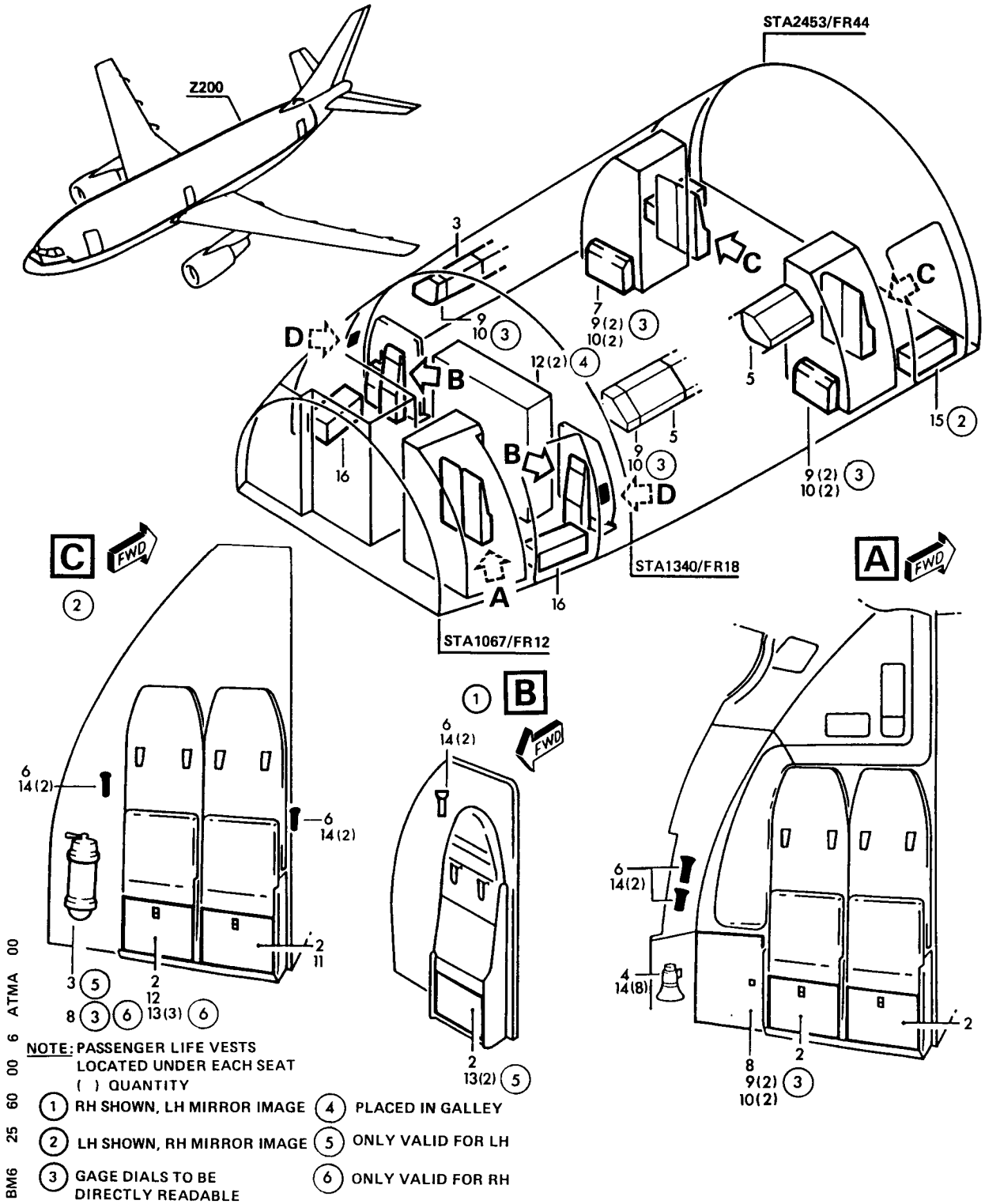



| ITEM | EQUIPMENT |
|---|---|
| 1 | LIFE VEST–DEMO |
| 2 | LIFE VEST–CHILD |
| 3 | LIFE VEST–CREW |
| 4 | LIFE VEST–SPARE |
| 5 | CRASH AXE |
| 6 | MEGAPHONE |
| 7 | FIRST AID KIT |
| 8 | FLASHLIGHT |
| 9 | RADIO BEACON |
| 10 | SAFETY BARRIER STRAP |
| 11 | OVERWING ESCAPE SLIDE |
| 12 | DUAL ESCAPE SLIDE/RAFT |
| 13 | FIRE EXTINGUISHER |
| 14 | PORTABLE OXYGEN BOTTLE |
| 15 | SMOKE HOOD |
| 16 | EXTENSION BELT |
| 17 | OXYGEN MASK – DEMO |
| 18 | MANUAL RELEASE TOOL |
| 19 | OXYGEN MASK |
| 20 | LIFE LINE |

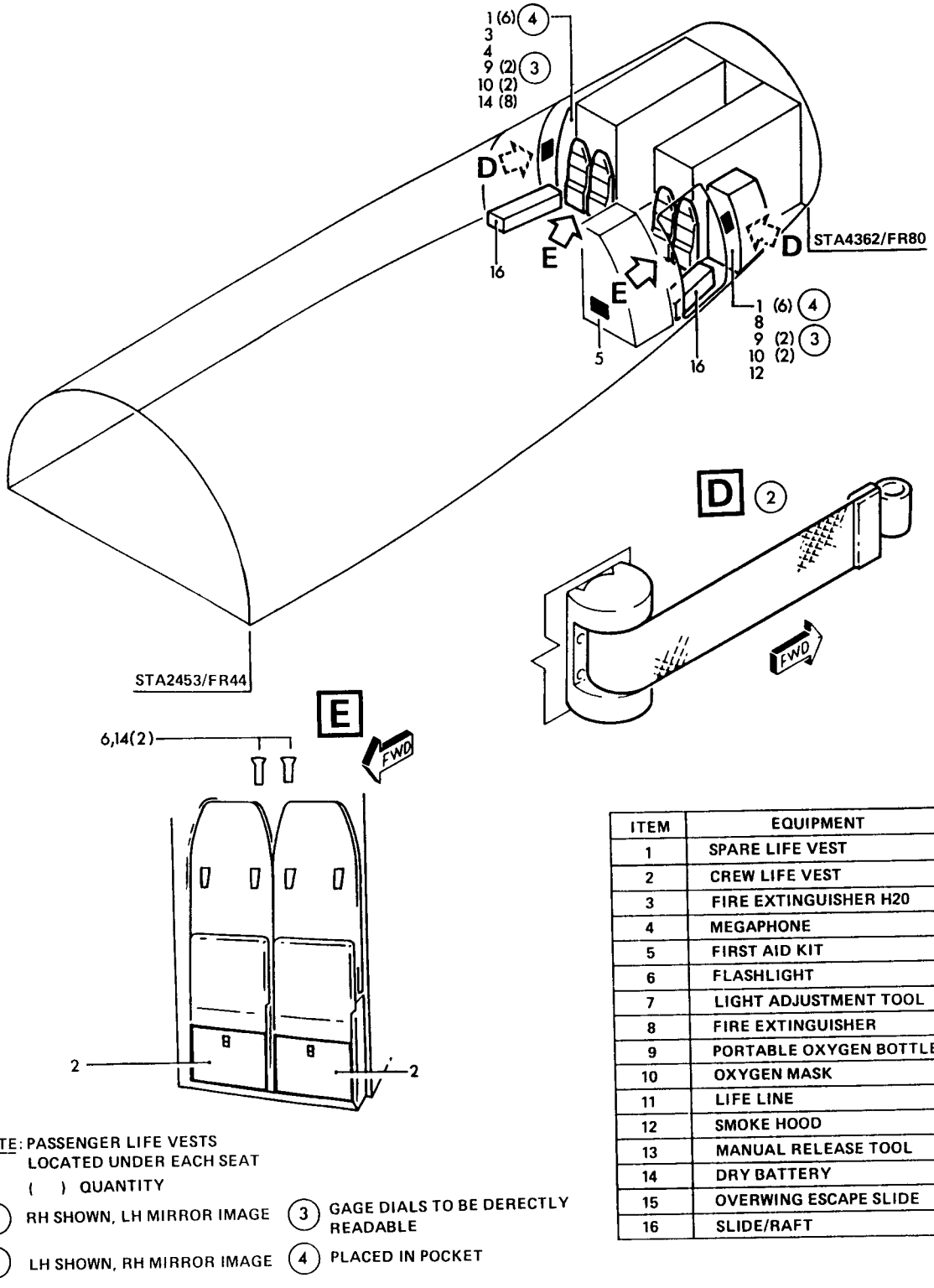
NOTE: PASSENGER LIFE VESTS LOCATED UNDER EACH SEAT

BM6 25 60 00 6 APMM 00

Passenger Compartment Emergency Equipment
Location (Sheet 2/2)
Figure 603




Passenger Compartment Emergency Equipment
Location (Sheet 1/2)
Figure 604




| ITEM | EQUIPMENT |
|---|---|
| 1 | SPARE LIFE VEST |
| 2 | CREW LIFE VEST |
| 3 | FIRE EXTINGUISHER H20 |
| 4 | MEGAPHONE |
| 5 | FIRST AID KIT |
| 6 | FLASHLIGHT |
| 7 | LIGHT ADJUSTMENT TOOL |
| 8 | FIRE EXTINGUISHER |
| 9 | PORTABLE OXYGEN BOTTLE |
| 10 | OXYGEN MASK |
| 11 | LIFE LINE |
| 12 | SMOKE HOOD |
| 13 | MANUAL RELEASE TOOL |
| 14 | DRY BATTERY |
| 15 | OVERWING ESCAPE SLIDE |
| 16 | SLIDE/RAFT |

NOTE: PASSENGER LIFE VESTS LOCATED UNDER EACH SEAT

( ) QUANTITY

(1) RH SHOWN, LH MIRROR IMAGE

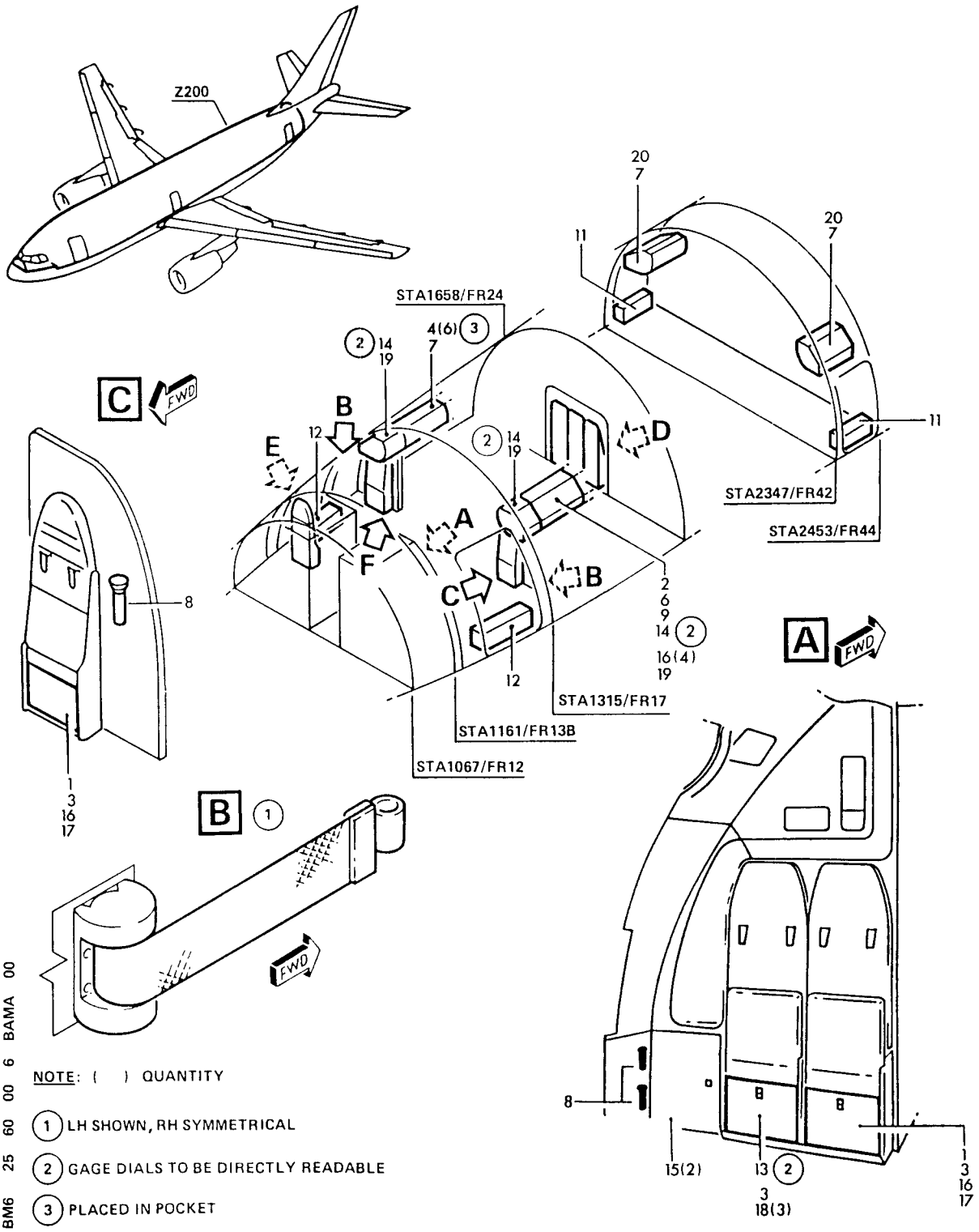
(2) LH SHOWN, RH MIRROR IMAGE

(3) GAGE DIALS TO BE DERECTLY READABLE

(4) PLACED IN POCKET

BM6 25 60 00 6 ATMM 00

Passenger Compartment Emergency Equipment Location (Sheet 2/2)
Figure 604




NOTE: ( ) QUANTITY

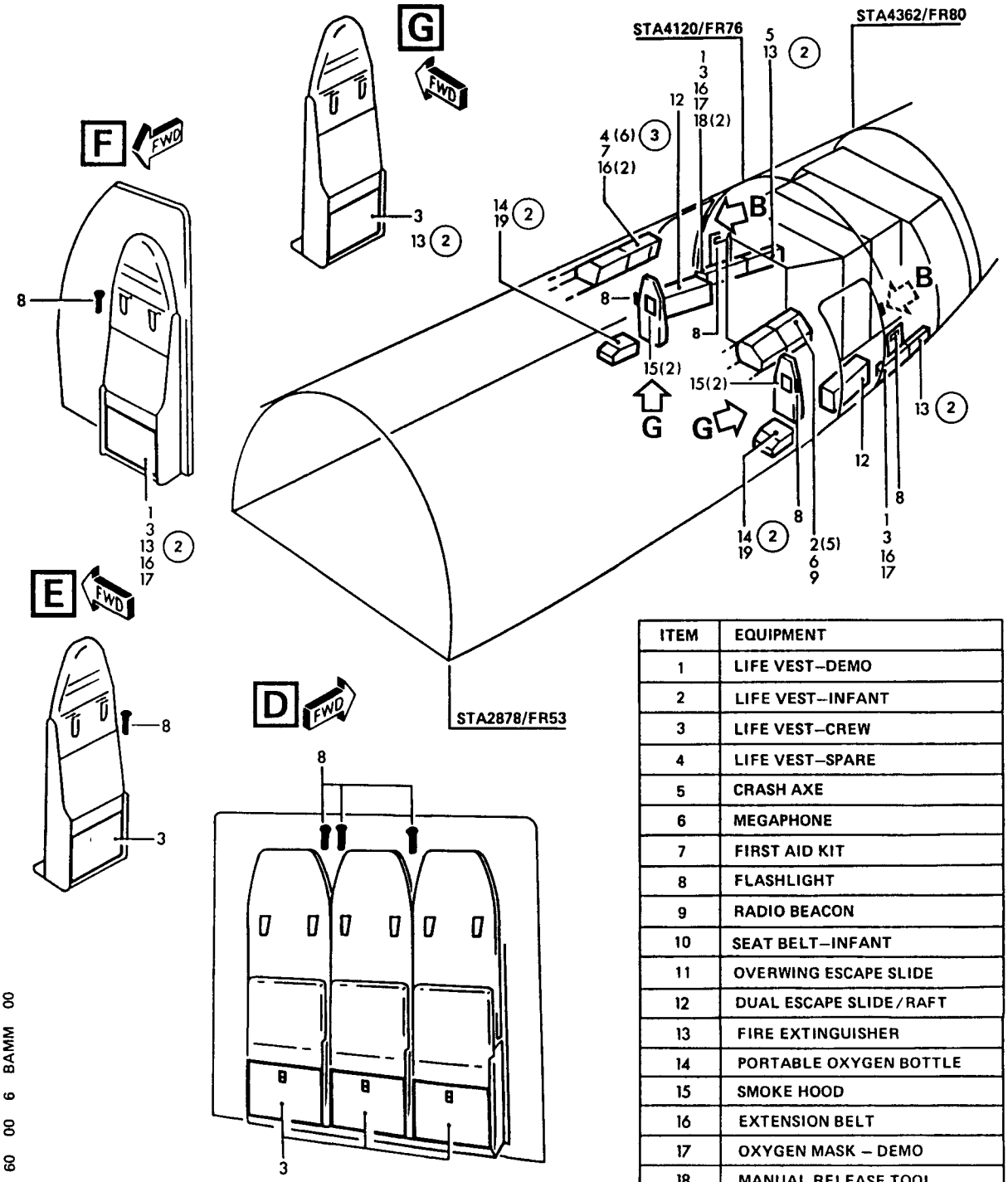
(1) LH SHOWN, RH SYMMETRICAL

(2) GAGE DIALS TO BE DIRECTLY READABLE

(3) PLACED IN POCKET

BM6 25 60 00 6 BAMA 00

Typical Passenger Compartment Emergency
Equipment Locations (Sheet 1/2)
Figure 605

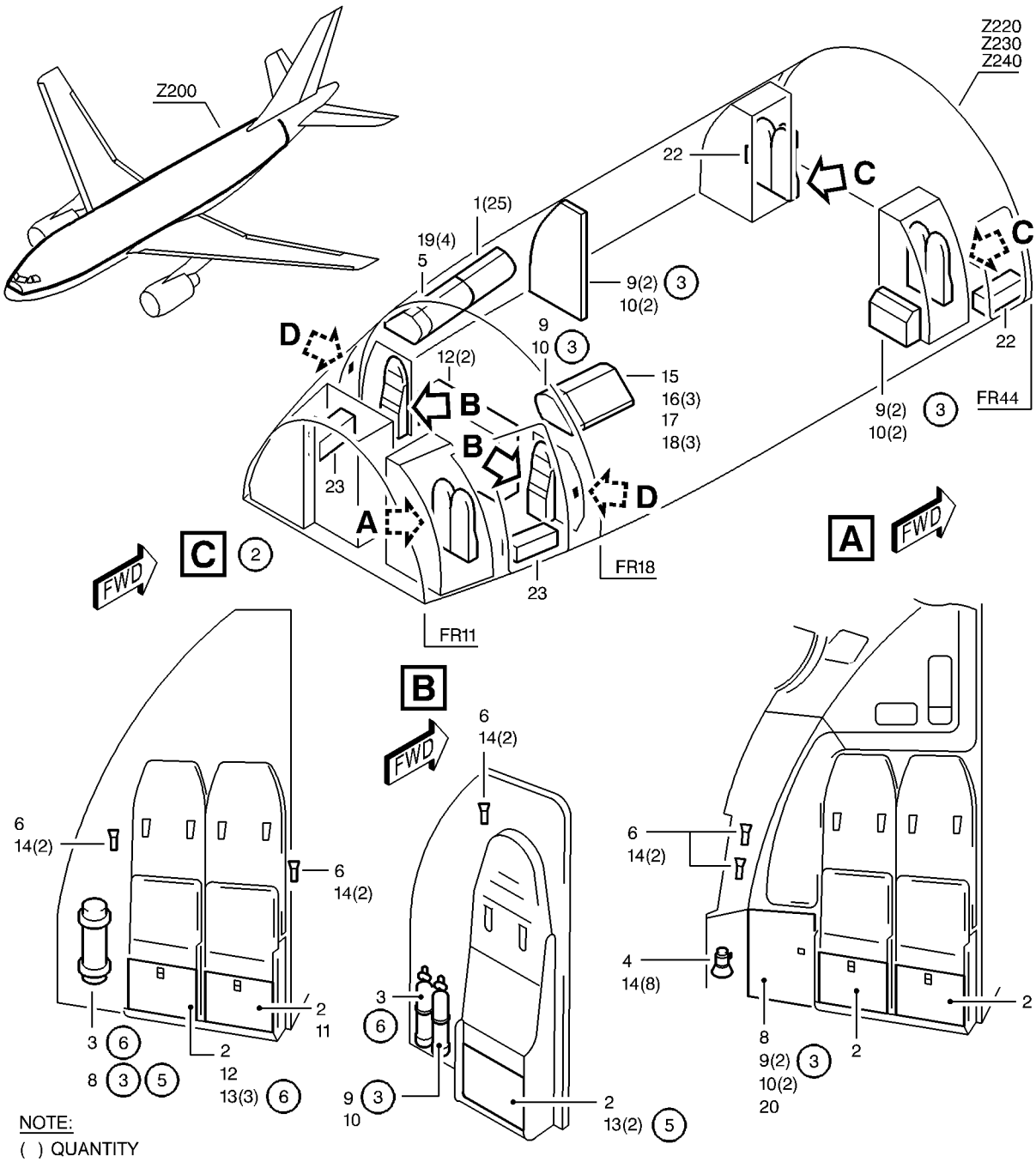



| ITEM | EQUIPMENT |
|---|---|
| 1 | LIFE VEST–DEMO |
| 2 | LIFE VEST–INFANT |
| 3 | LIFE VEST–CREW |
| 4 | LIFE VEST–SPARE |
| 5 | CRASH AXE |
| 6 | MEGAPHONE |
| 7 | FIRST AID KIT |
| 8 | FLASHLIGHT |
| 9 | RADIO BEACON |
| 10 | SEAT BELT–INFANT |
| 11 | OVERWING ESCAPE SLIDE |
| 12 | DUAL ESCAPE SLIDE/RAFT |
| 13 | FIRE EXTINGUISHER |
| 14 | PORTABLE OXYGEN BOTTLE |
| 15 | SMOKE HOOD |
| 16 | EXTENSION BELT |
| 17 | OXYGEN MASK – DEMO |
| 18 | MANUAL RELEASE TOOL |
| 19 | OXYGEN MASK |
| 20 | LIFE LINE |

NOTE: PASSENGER LIFE VESTS LOCATED UNDER EACH SEAT

BM6 25 60 00 6 BAMM 00

Typical Passenger Compartment Emergency
Equipment Locations (Sheet 2/2)
Figure 605



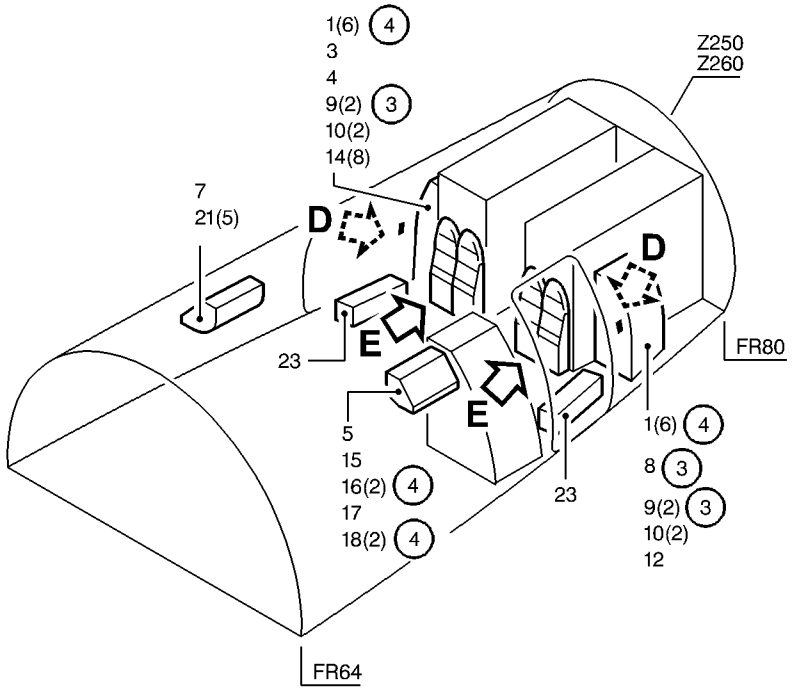

NOTE:
( ) QUANTITY
PASSENGER LIFE VESTS LOCATED UNDER EACH SEAT

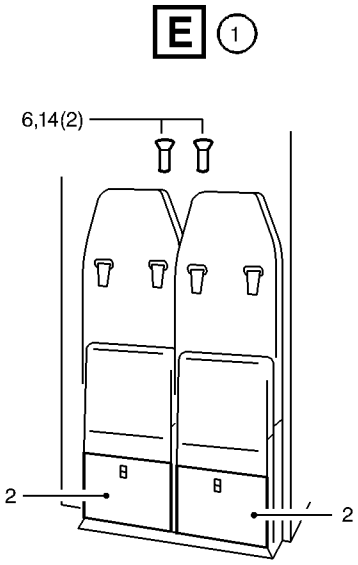
1. RH SHOWN, LH MIRROR IMAGE
2. LH SHOWN, RH MIRROR IMAGE
3. GAUGE DIALS TO BE DIRECTLY READABLE
4. PLACED IN GALLEY
5. ONLY VALID FOR LH
6. ONLY VALID FOR RH

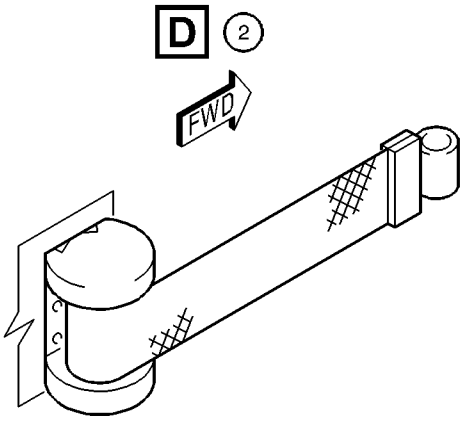
BM6 25 60 00 6 AKPA 00

Typical Passenger Compartment Emergency
Equipment Locations (Sheet 1/2)
Figure 606

R




| ITEM | EQUIPMENT |
|---|---|
| 1 | SPARE LIFE VEST |
| 2 | CREW LIFE VEST |
| 3 | FIRE EXTINGUISHER H20 |
| 4 | MEGAPHONE |
| 5 | FIRST AID KIT |
| 6 | FLASHLIGHT |
| 7 | DOCTORS KIT |
| 8 | FIRE EXTINGUISHER |
| 9 | PORTABLE OXYGEN BOTTLE |
| 10 | OXYGEN MASK |
| 11 | LIFE LINE |
| 12 | SMOKE HOOD |
| 13 | MANUAL RELEASE TOOL |
| 14 | DRY BATTERY |
| 15 | EMERGENCY BEACON |
| 16 | DEMO LIFE VEST |
| 17 | EMERGENCY AXE |
| 18 | DEMO OXYGEN MASK |
| 19 | EXTENSION BELT |
| 20 | FIRE PROTECTIVE GLOVES |
| 21 | CHILDREN LIFE VEST |
| 22 | OVERWING ESCAPE SLIDE |
| 23 | SLIDE/RAFT |

NOTE: PASSENGER LIFE VESTS LOCATED UNDER EACH SEAT
( ) QUANTITY

(1) RH SHOWN, LH MIRROR IMAGE

(2) LH SHOWN, RH MIRROR IMAGE

(3) GAUGE DIALS TO BE DIRECTLY READABLE

(4) PLACED IN POCKET

BM6 25 60 00 6 AKPM 00

Typical Passenger Compartment Emergency Equipment Locations (Sheet 2/2)
Figure 606

R

# FLIGHT COMPARTMENT EMERGENCY DESCENT DEVICE - REMOVAL/INSTALLATION

R 1. Reason for the Job

A. Removal for replacement after emergency or accidental use.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform 4.5 m (14 ft. 9 in.) |
| Reference Procedure<br>- 25-61-13, P. Block 601 | Flight Compartment Emergency Descent Device |

3. Procedure
(Ref. Fig. 401)

A. Job Set-Up
(1)Position access platform.
(2)Remove flight compartment lining around emergency descent device assembly (L and R side) in order to gain access to container attaching screws.

B. Removal

NOTE : Removal/Installation being identical for all (R and L) emergency descent devices, only one device is deal with in this topic.

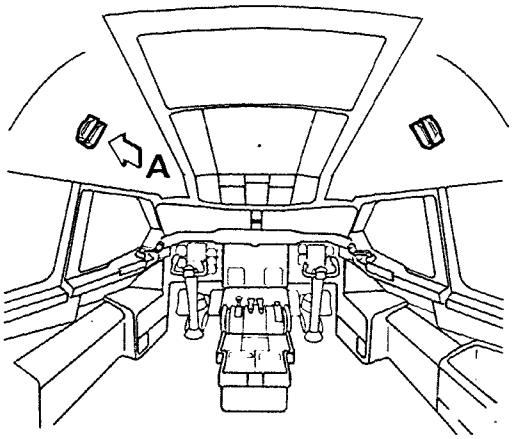
(1)Unscrew and remove container attaching screws (6).
(2)Remove emergency descent device assembly from flight compartment wall.

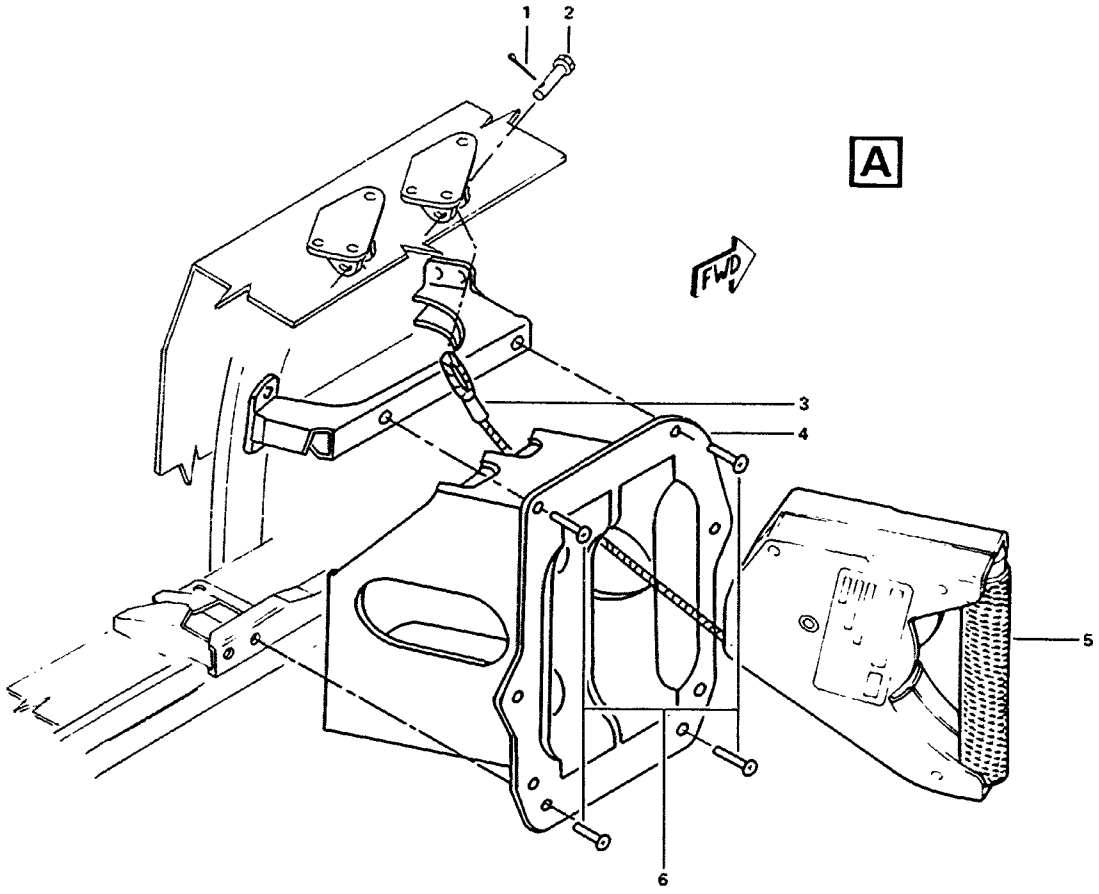
CAUTION : HOLD DESCENT DEVICE ASSEMBLY AT A DISTANCE LESS THAN 0.70 m (27 in.) FROM THE STRUCTURE IN ORDER TO MAKE IT POSSIBLE TO EXTRACT THE HOLDING PIN OF THE DEVICE.
BEYOND THIS DISTANCE THE CABLE IS COMPLETELY OUT AND THE GROMMET COMES OUT OF ITS HOUSING.

(3)Remove cotter pin (1) from pin (2) holding descent device cable (3) to the structure.
(4)Remove cable (3) pin from descent device.
(5)Remove descent device from container by pulling handle (5).

C. Preparation of Replacement Component
(1)Check that the grommet is correctly positioned and that inspection seal on each device is in good condition.
NOTE : Prior to installation inspect descent device (Ref. 25-61-13, P. Block 601).

D. Installation
(1)Install descent device in container.
(2)Attach cable (3) to the structure by means of holding pin (2) and install cotter pin (1).




BM5 25 61 13 4 ACMO – 12

Emergency Descent Device - Flight Compartment
Figure 401

(3)Install descent device assembly on its support and attach it to aircraft structure by means of screws (6).

E. Close-Up

(1)Install flight compartment lining.

(2)Remove access platform.

# FLIGHT COMPARTMENT EMERGENCY DESCENT DEVICE - INSPECTION/CHECK

1. Reason for the Job
   To do a detailed inspection of cockpit emergency escape rope and rope attachment, in the following cases :
   - after use for emergency escape
   - after use for instructional emergency escape procedure or inadvertent operation of the device
   - after replacement of emergency descent device.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 4.5 m (14 ft. 9 in.) |
| B. Material No. 11-004 | Cleaning Agents (Ref. 20-31-00) |
| Referenced Procedure<br>- 25-61-13, P. Block 401 | Flight Compartment Emergency Descent Device |

3. Procedure
   (Ref. Fig. 601)

   A. Job Set-Up
      (1)Position access platform.

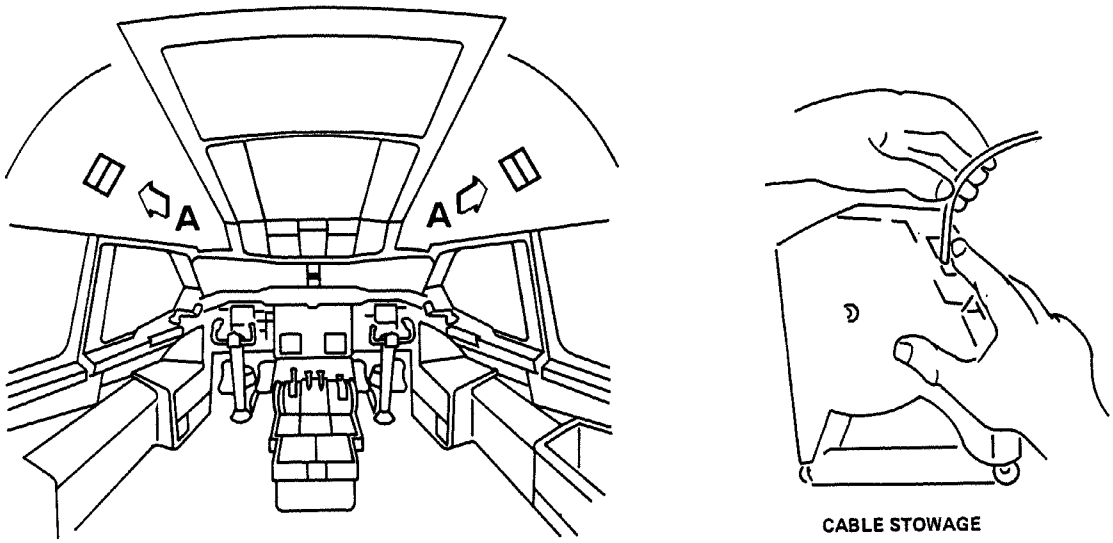
R NOTE : If, after use of the device, the tape is twisted in several
R places it is recommended that the device be removed from the
R structure (Ref. 25-61-13, P. Block 401).

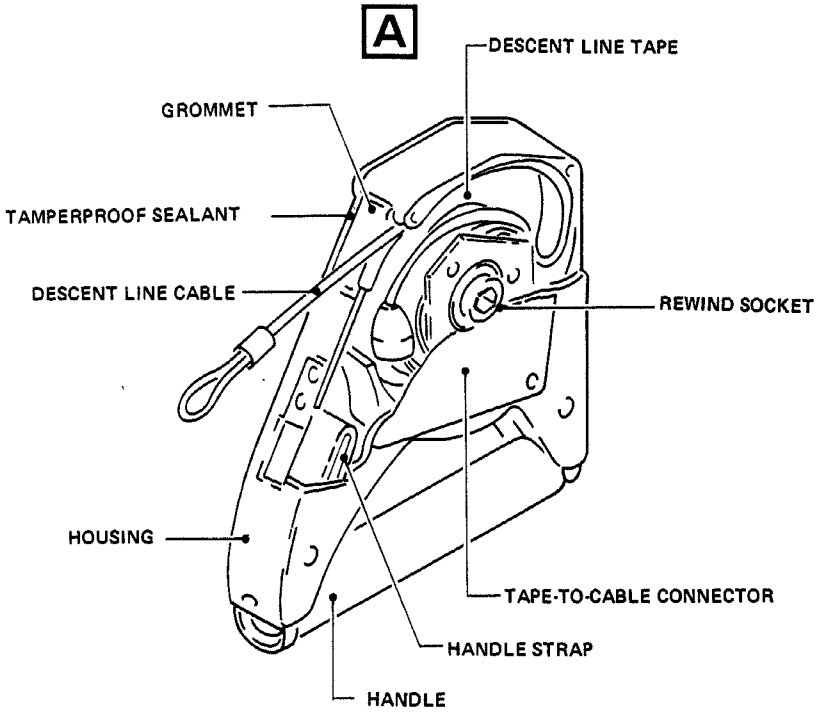
NOTE : The device must be removed from the structure (Ref. 25-61-13, P. Block 401) and returned to the vendor for inspection and recertification, if :

R - the tape is twisted in several places after use of the device,
- the 5 year warranty date is expired,
- the both handle safety seals are broken and tears are found on the handle straps,
- the evidence of physical damage to the unit is found,
- the safety seal tape and the sealant around the grommet are broken.

   B. Inspection of Descent Device
      (1)Tape inspection
         (a)Check that the tape has no sharp folds, frays or torn edges
         (b)Check that the connection between tape and attachment cable is not damaged.
      (2)Attachment cable inspection
         (a)Check, paying particular attention to the loop, that the cable is not distorted and does not show evidence of broken or corroded strands.
      (3)Check that the handle and the housing are not damaged or dirty.
      (4)Check condition of strap to handle attachments.

   C. Checking that device is held by container

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DM5

Flight Compartment Emergency Descent Device
Figure 601

(1)Inspect the device locking system in container, make certain that it is not broken.
(2)Insert the device in container (curved arm downwards by positioning it in container guide and pushing until it is locked by the latch in container guide, mating with the angle clip on the device.
(3)Pull handle, it must detach from its housing before the device itself detaches from container.
If the device is released by the container before the handle itself is released by its detents, adjust the container/device locking system by bending the latch slightly then repeat the test.
(4)Stow the handle making certain that it is locked.
(5)Stow the device in container and make certain that it is locked.

D. Close-Up
(1)Remove access platform

# PASSENGER COMPARTMENT ESCAPE FACILITIES - DESCRIPTION AND OPERATION

**WARNING : POSITION TERMINOLOGY OF THE EMERGENCY CONTROL HANDLE IS STANDARDIZED AS ARMED/DISARMED. THE FOLLOWING TABLE RELATES THE STANDARD TERMINOLOGY TO THAT WHICH MAY BE PLACARDED:**

| ARMED | DISARMED |
|---|---|
| AUTOMATIC FLIGHT | MANUAL PARK |

## 1. General

(Ref. Fig. 001)

The passenger compartment is provided with four double-width passenger/crew doors and two overwing emergency exit doors. Each door is fitted with an automatically deployed and inflated escape slide to facilitate the emergency evacuation of all passengers and crew in the shortest possible time. All slides are of the inflatable type, using cylinder-stored compressed gas. The escape slides are mounted on the door structure, armed/disarmed by the door emergency escape slide release mechanism, and activated by the door opening process. The FWD passenger/crew doors (Z831 and Z841) and AFT passenger/crew doors (Z833 and Z843) are each fitted with a dual-lane escape slide allowing for two abreast evacuation and the emergency exit doors (Z834 and Z844) are each fitted with a single-lane escape slide and ramp section.
The passenger/crew door girt bar retaining mechanism controls actuation and deployment of the dual escape slides. The overwing escape slide activation and deployment is controlled by an exit door internal release mechanism. All doors are equipped with an emergency escape slide warning system. When the emergency control handle is placed in the ARMED position and the interior control handle is lifted to open a door, an electrical warning system on the door is activated providing audio and visual warning signals (Ref. 52-73-00).

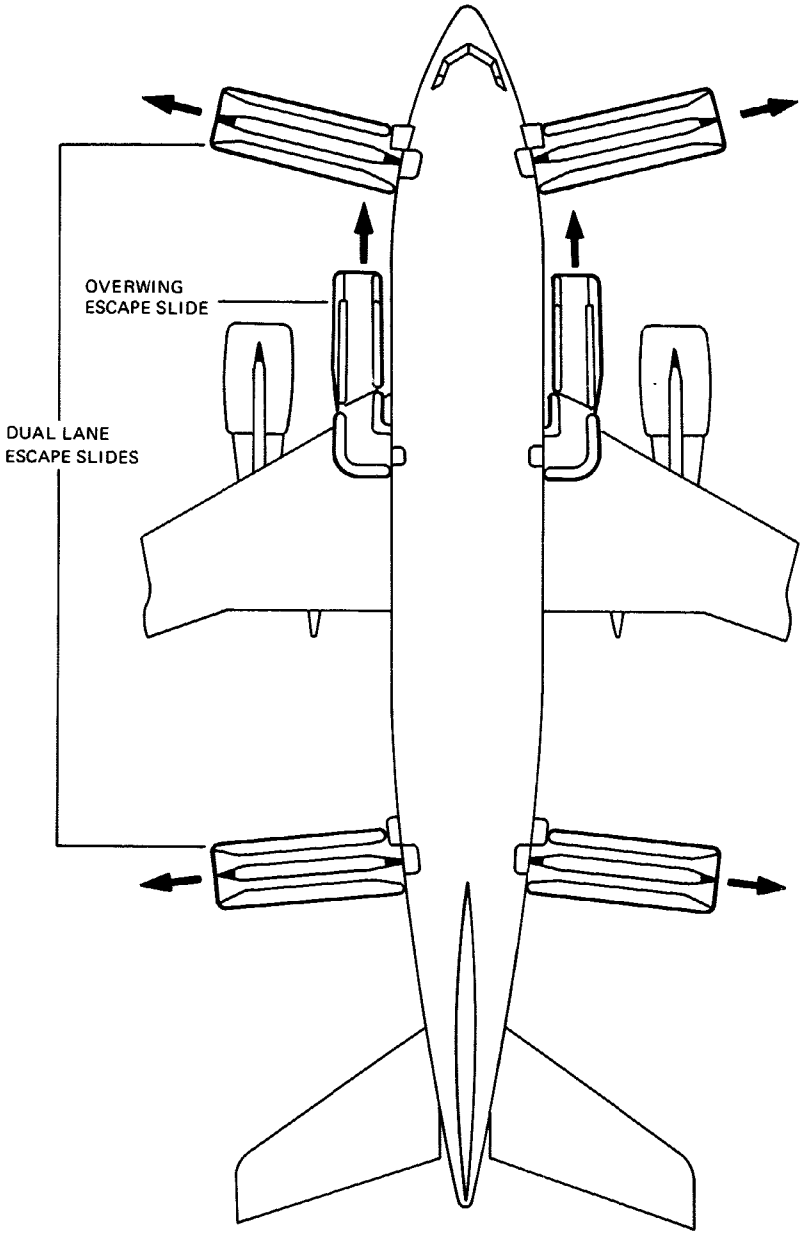
## 2. Passenger/Crew Door Interface

### A. General Description

The passenger/crew doors are structurally and mechanically similar, and are designed to be used as emergency exits. The opening and closing operations are accomplished by interior and exterior control handles. The doors unlock upwards, open outwards, move forward parallel to the fuselage and lock in the open position.

### B. Emergency Control Mechanism

(Ref. Fig. 002)
The escape slide release mechanism functions to activate emergency opening of the door and initiate the escape slide deployment process. The mechanism is manually operated by the two-position Emergency Control Handle (ECH). The ECH is connected to the door locking mechanism so that the handle can only be repositioned when the door is closed and locked. A safety pin secures the ECH in the DISARMED position only. The ECH is connected by rods

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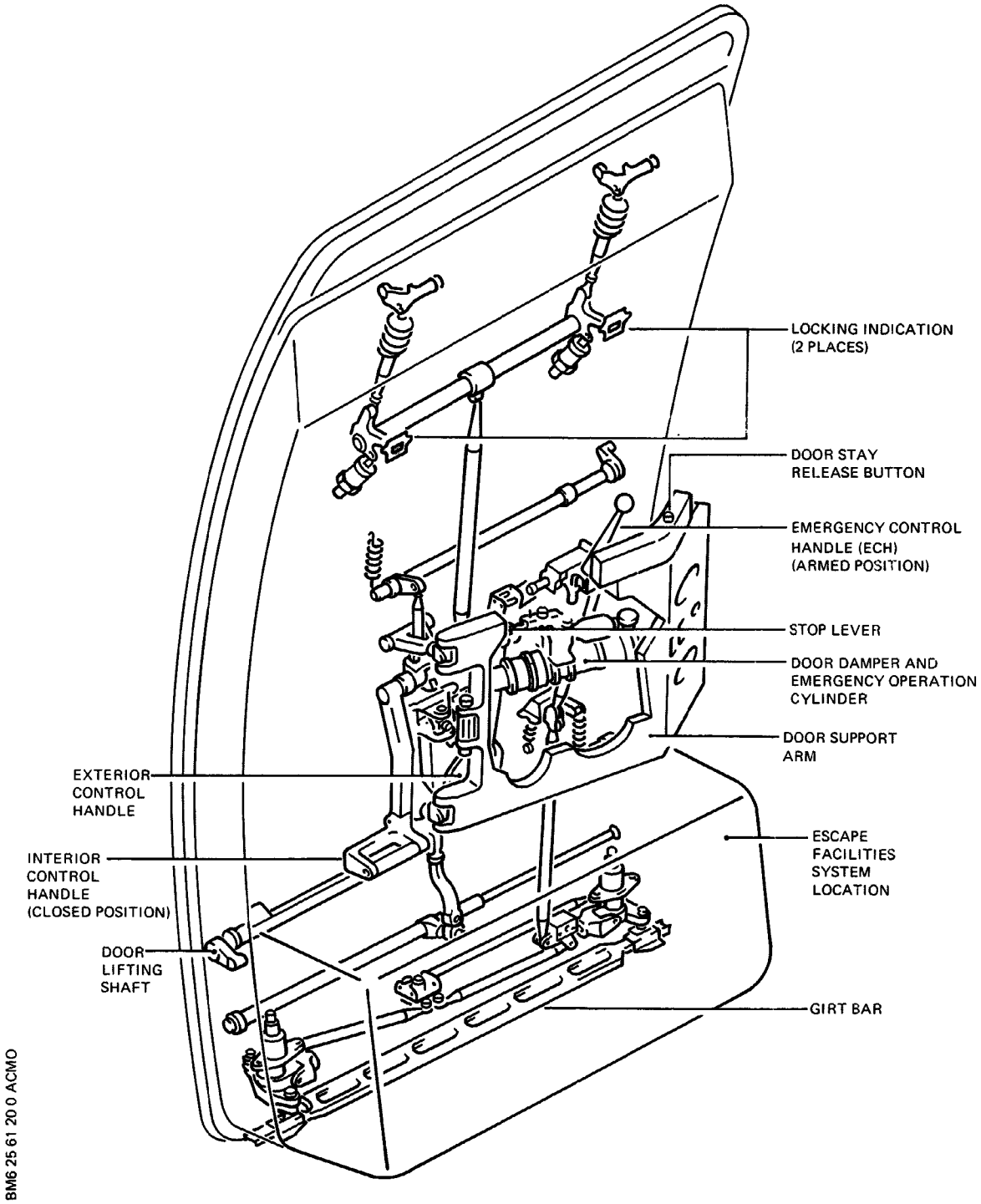
Escape Slide Deployment Arrangement
Figure 001


LOCKING INDICATION (2 PLACES)
DOOR STAY RELEASE BUTTON
EMERGENCY CONTROL HANDLE (ECH) (ARMED POSITION)
STOP LEVER
DOOR DAMPER AND EMERGENCY OPERATION CYLINDER
DOOR SUPPORT ARM
EXTERIOR CONTROL HANDLE
INTERIOR CONTROL HANDLE (CLOSED POSITION)
DOOR LIFTING SHAFT
ESCAPE FACILITIES SYSTEM LOCATION
GIRT BAR
BM6 25 61 20 0 ACMO

Typical Passenger/Crew Door Mechanisms
Figure 002

to the stop lever and the girt bar control mechanism.

(1)Door Damper and Emergency Operation Cylinder

(Ref. Fig. 003)

The door damper and emergency operation cylinder, installed on the door support arm, hydraulically forces the door open upon activation of a percussion device. The release lever of the percussion device is activated by the ECH controlled stop lever. For maintenance purposes, the percussion device must be safetied by insertion of a safety pin and the release lever displaced.

After emergency operation, the metal diaphragm within the percussion device must be replaced and the emergency operation cylinder must be serviced.

(2)Girt Bar Control

(Ref. Fig. 004)

The slide/raft girt is connected to the door escape slide release mechanism through use of a girt bar and quick-change bar assembly. Attaching the girt bar either to the door or to the aircraft floor is accomplished by placing the ECH in the **DISARMED** or **ARMED** positions respectively. The girt bar has a slider fitted to each end. The sliders are positioned along the girt bar ends by movement of door-mounted guide arms connected by rods to the ECH. Flanges on the sliders engage
R with door-mounted linkage guides with the ECH in the **DISARMED** position, resulting in attaching the girt bar to the door underside. Placing the
R ECH in the **ARMED** position releases the sliders from the linkage guides and inserts the lower flanges of the sliders into floor-mounted girt bar fittings. Spring-loaded latches within the sliders engage with slots in the girt bar to retain the assembly in the floor fittings.

The quick-change bar assembly is installed on the primary girt bar to enable a slide/raft unit to be removed from an inoperative door for deployment from any alternative passenger/crew door after an emergency ditching. The assemblies are handed and are installed with the quick-release mechanism forward (door hinge side).

C. Door Operation

(1)Normal opening from inside

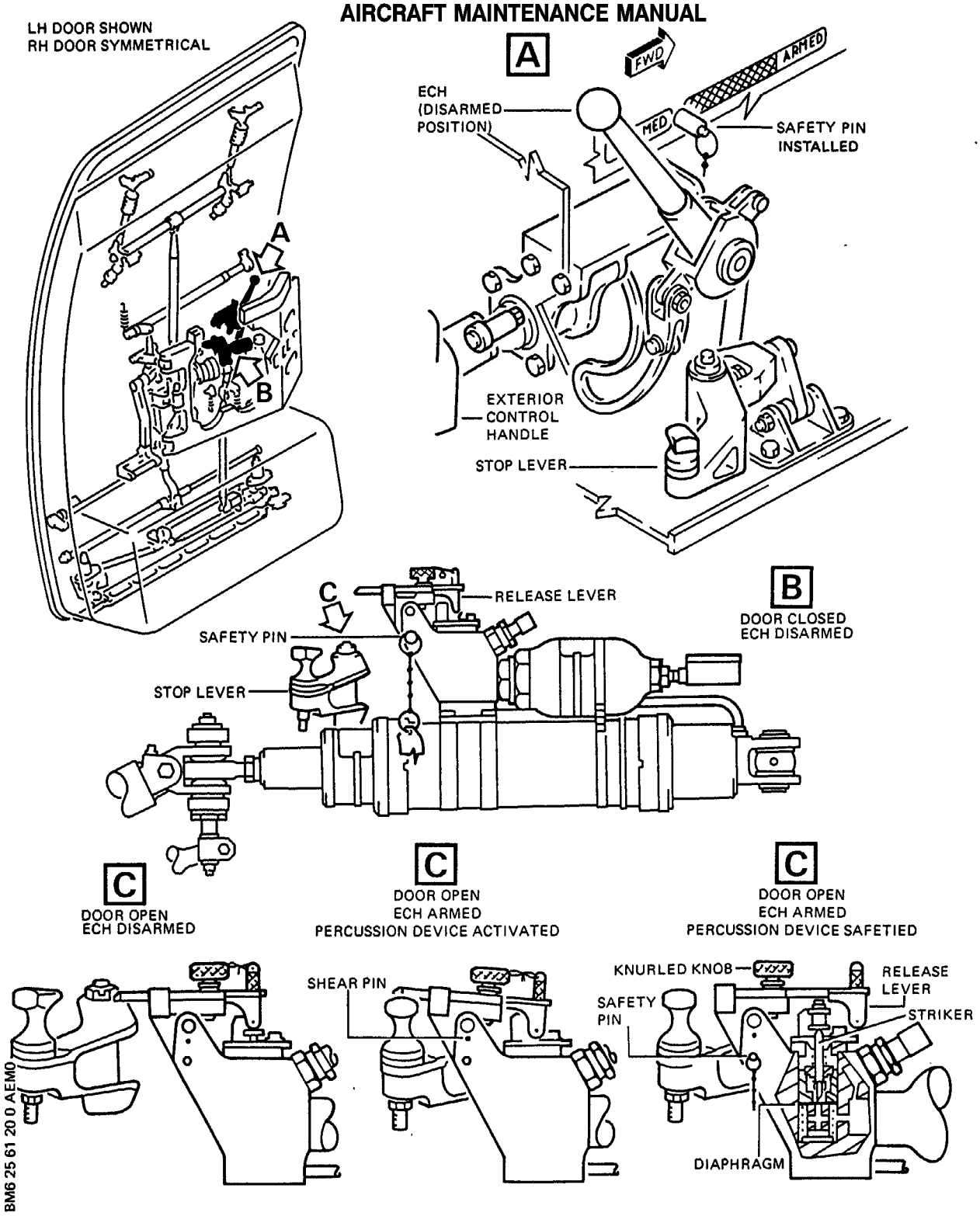
For normal operation, the ECH must be in the **DISARMED** position, with safety pin installed. Lifting the door interior control handle releases the door locking mechanism verified by an **UNLOCKED** indication. The lifting shaft eccentrically-mounted arms rotate in the fuselage door frame fittings to lift the door free of the stops.

As the door is lifted, the retracted stop lever by-passes the door damper and emergency operation cylinder percussion mechanism release lever, so that a damping action only results as the door is pushed open. The door stay mechanism, located on the support arm, locks the door in the open position.

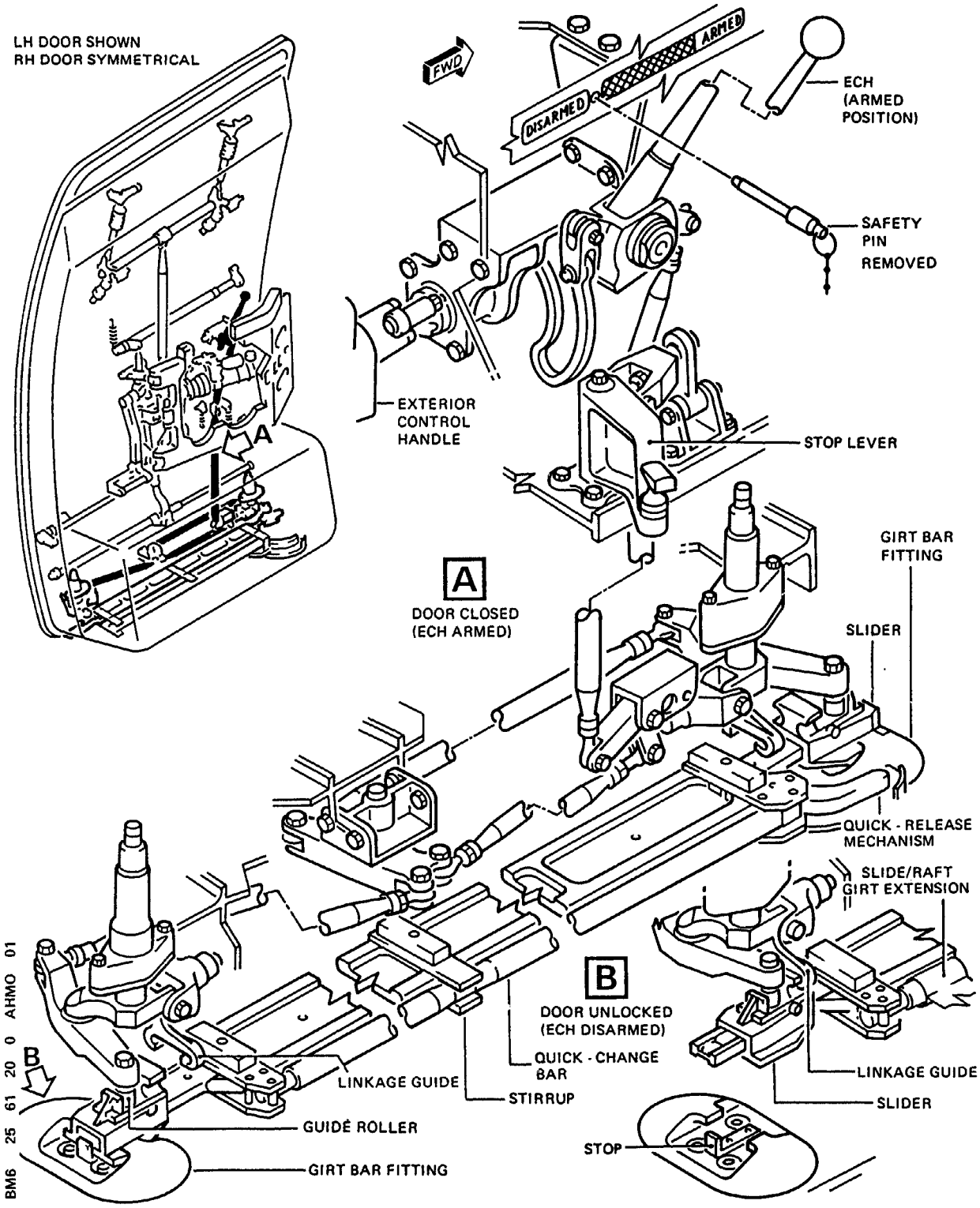
(2)Normal opening from outside

When opening the door from outside, the ECH is automatically placed in the **DISARMED** position by a direct connection with the exterior control handle. The door opening then functions identically to the method described for normal opening from inside.

(3)Emergency opening




Percussion Device Functioning
Figure 003




Girt Bar Control
Figure 004

R

Emergency opening of the door is possible only from inside. Placing the ECH in the ARMED position swivels the stop lever to a position immediately beneath the percussion mechanism release lever and simultaneously secures the girt bar to the floor fittings.
Lifting the interior control handle initiates the opening sequence that is similar to the normal opening, with the following differences:

(a) As the door is lifted, the stop lever contacts the percussion device release lever, forcing the striker to pierce a metal diaphragm, releasing compressed gas into the actuator. The actuator then extends, forcing the door open.

(b) As the door, with escape slide attached and girt secured to the floor, opens outward, tension is applied to the escape slide release cable to initiate the deployment sequence.

(4) Closing

Press door stay release button and simultaneously pull door, using assist handles, towards the door frame. Pulling the interior control handle downwards lowers and locks the door. The locking indicators change from UNLOCKED to LOCKED.

3. Slide/Raft

A. General

The passenger/crew door slide/rafts are the dual-lane type having means to permit both automatic and manual deployment. The slide/rafts combine the functions of escape slides and inflatable life rafts. This combination of functions has the advantages of lower weight and space saving when compared with separate slide and raft units. The inflatable unit is packed inside a hard cover and packboard assembly, and is mounted on the aircraft door structure.
The dual-lane unit mounted on the FWD and AFT doors is approximately 907 cm (360 in.) in length and has a rated raft capacity of 67 persons.
Each slide/raft consists of the following major subsystems:

(1) Inflatable
(2) Inflation System
(3) Packboard Assembly
(4) Decorative Cover

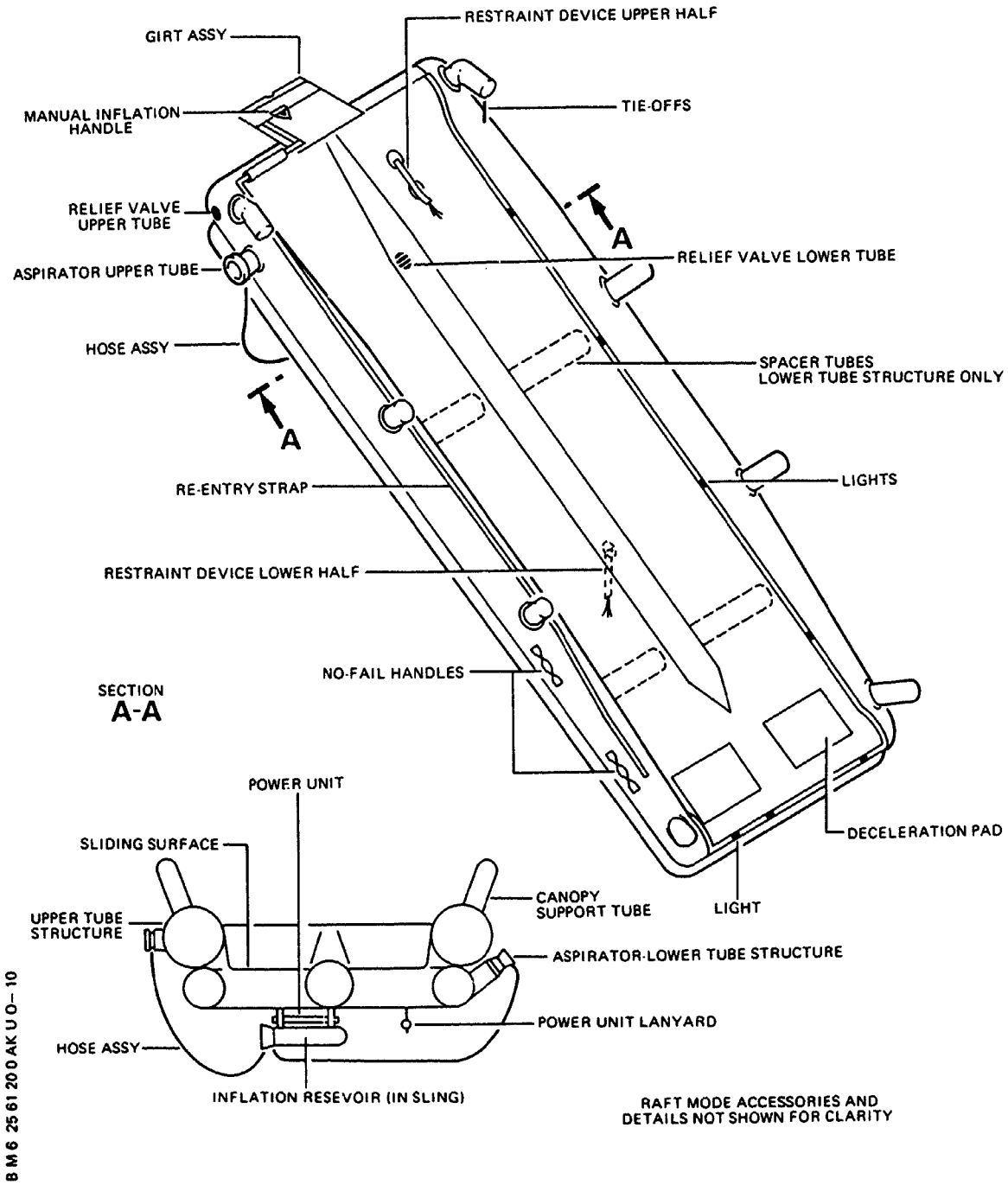
B. Component Description

(1) Inflatable

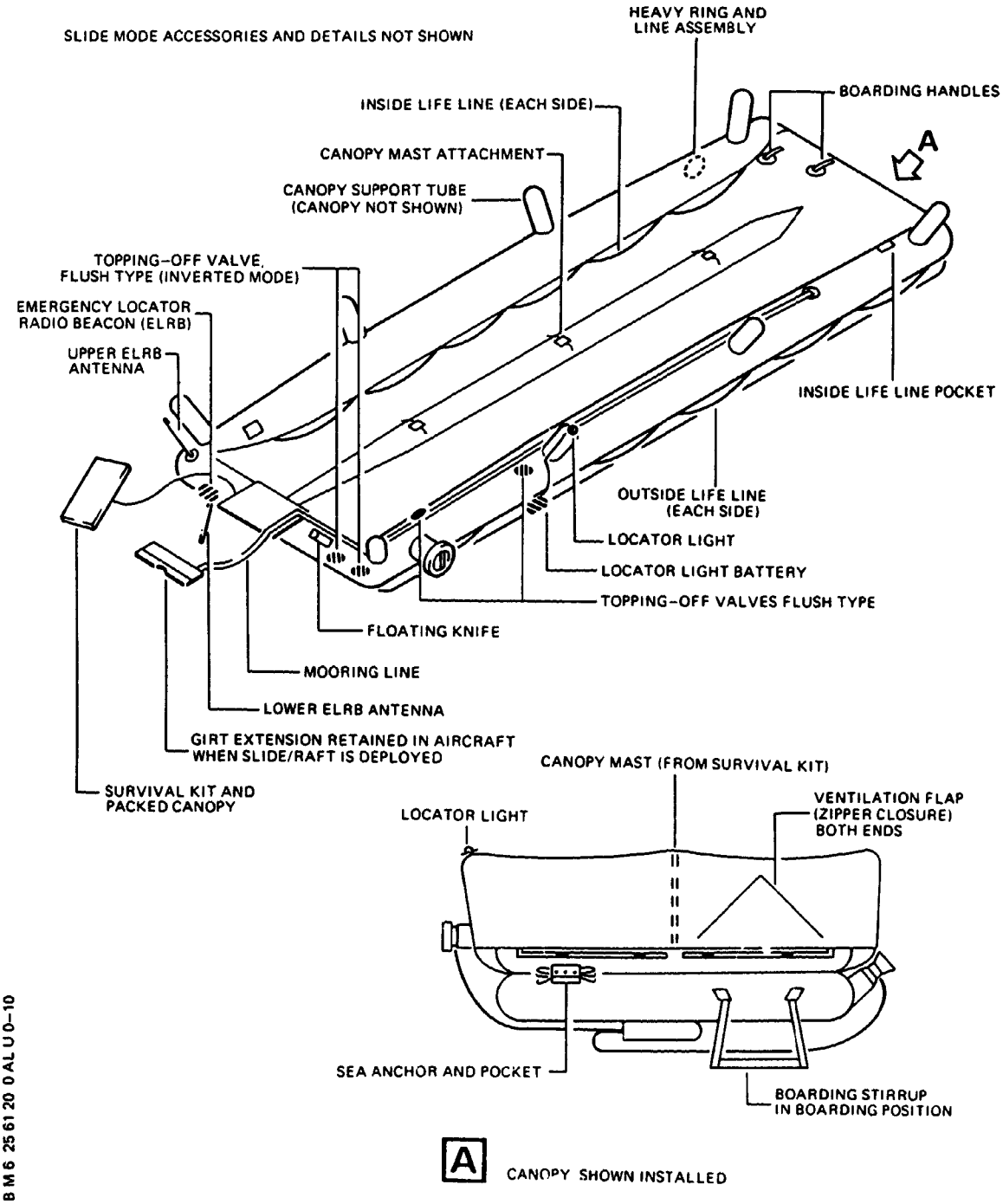
(Ref. Fig. 005)
(Ref. Fig. 006)

(a) Structure

The inflatable slide/rafts are constructed from heat-reflective urethane-coated nylon fabric. The slide/raft construction consists of two (upper and lower) structurally and pneumatically joined tube assemblies. The lower rectangular tube assembly consists of two longitudinal inflatable support tubes which are structurally and pneumatically joined at either end and at various locations along their axes by transverse (crosswise) support tubes. A third (center) longitudinal support tube serves as a lane divider. Transverse (crosswise) support tubes, which interconnect the lower longitudinal tubes with the lane




Slide/Raft - Slide Mode
Figure 005


SLIDE MODE ACCESSORIES AND DETAILS NOT SHOWN
HEAVY RING AND LINE ASSEMBLY
BOARDING HANDLES
INSIDE LIFE LINE (EACH SIDE)
A
CANOPY MAST ATTACHMENT
CANOPY SUPPORT TUBE (CANOPY NOT SHOWN)
TOPPING-OFF VALVE, FLUSH TYPE (INVERTED MODE)
EMERGENCY LOCATOR RADIO BEACON (ELRB)
UPPER ELRB ANTENNA
INSIDE LIFE LINE POCKET
OUTSIDE LIFE LINE (EACH SIDE)
LOCATOR LIGHT
LOCATOR LIGHT BATTERY
TOPPING-OFF VALVES FLUSH TYPE
FLOATING KNIFE
MOORING LINE
LOWER ELRB ANTENNA
GIRT EXTENSION RETAINED IN AIRCRAFT WHEN SLIDE/RAFT IS DEPLOYED
SURVIVAL KIT AND PACKED CANOPY
CANOPY MAST (FROM SURVIVAL KIT)
LOCATOR LIGHT
VENTILATION FLAP (ZIPPER CLOSURE) BOTH ENDS
SEA ANCHOR AND POCKET
BOARDING STIRRUP IN BOARDING POSITION
A CANOPY SHOWN INSTALLED

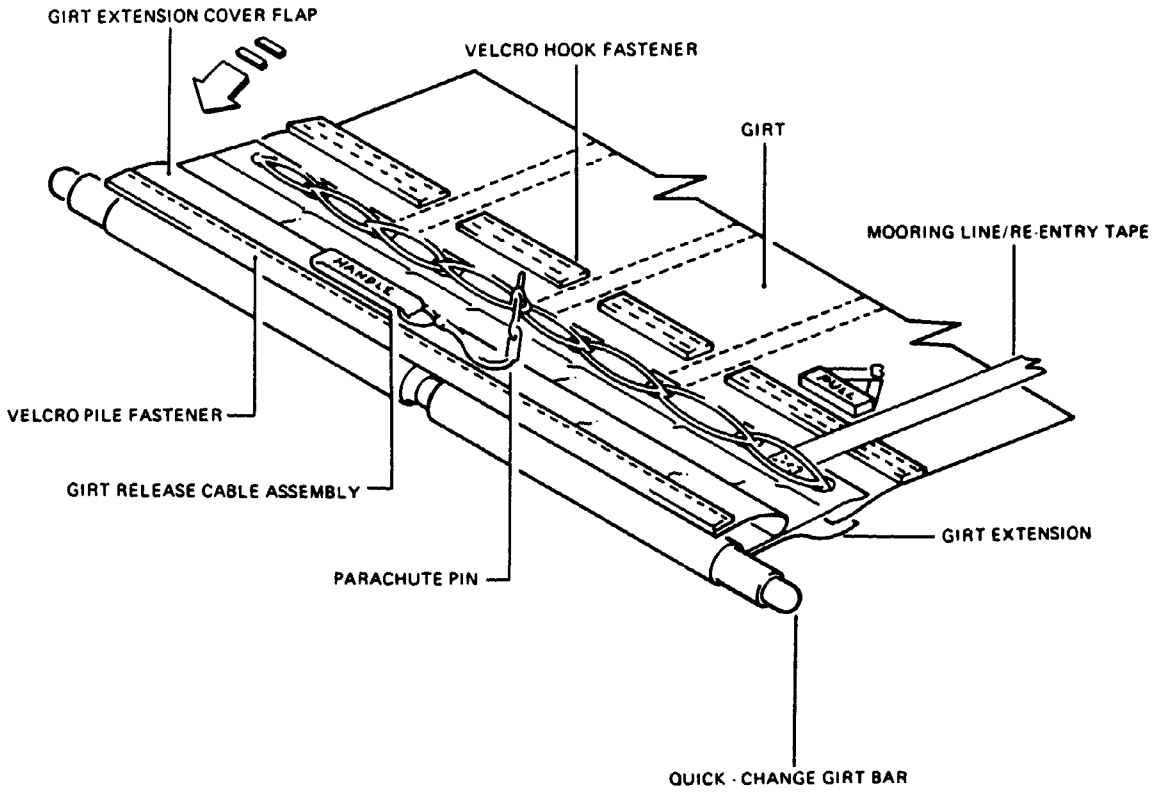
BM6 25612 0 ALU 0-10

R Slide/Raft - Raft Mode
Figure 006

divider, minimize body tube twist or ''roll'' under load and prevent the sliding lanes from being formed into troughs which would adversely affect evacuation rate.
The upper rectangular tube assembly consists of two longitudinal inflatable support tubes structurally and pneumatically joined at either end by transverse tubes. The crosswise tube at the door sill end provides stable support against the aircraft, and the bottom crosswise tube provides support at the runway end.
The sliding surface or ''floor'' is a non-inflatable gray urethane-coated nylon covering which is attached as a taut ''membrane'' commencing at the sill tubes and continuing downward in the plane of the intersection between the upper and lower perimeter tube structures. At a point approximately eight feet from the runway end, the floor is transitioned to form a ''hook'' contour until at the runway end, it becomes tangent to the top surface of the upper runway tube. An integral urethane-coated deceleration panel is located at the bottom of each sliding lane. The floor is designed to provide the evacues with positive deceleration which assures that they will be brought rapidly, but safely, to an upright position as they reaches the runway end and are able to walk away from the slide/raft.
Located around the perimeter of the upper body tube are eight canopy support tubes which provide the primary means of support for the raft canopy. The canopy support tubes are fabricated from heat-reflective urethane-coated nylon fabric. The two canopy support tubes at the sill end of the unit are held away from the aircraft by means of webbing loop tie-offs. (This prevents them from interfering with the opened door). At the time of canopy erection in the raft mode, the tie-offs are separated to permit the support tubes to extend.

(b)Girt Assembly
(Ref. Fig. 007)
In the armed mode, the inflatable is connected to the aircraft door sill by means of the door-mounted slide release mechanism girt bar, which is retained in floor brackets. The quick-change bar is installed through a sleeve in the girt extension. The girt extension is attached to the girt assembly by a series of interlocking white nylon cord loops (daisy chain). The series of cord loops is retained by a breakaway-tied parachute pin installed through the center cord loop.
A pull handle/cable attached to the parachute pin permits the pin to be withdrawn, thus causing the girt and girt extension to separate. This girt separation cable assembly/cord loop arrangement, located under a protective flap, provides an expedient means of detaching the inflated slide/raft from the aircraft. A mooring line/re-entry tape is permanently attached to the girt extension.

(c)Slide Mode Accessories
(Ref. Fig. 005)
1 No-Fail Handles
In order to permit the slide/raft to be used as a non-inflatable apron chute, no-fail handles constructed of webbing are located at the runway end on either side of the inflatable. In case of pressure loss within the inflatable, the handles are grasped by persons

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Girt Assembly
Figure 007

standing on the ground and the inflatable is extended to form a hand-held chute.

2 Re-entry Tape

The re-entry tape is provided as an aid in reboarding the aircraft if necessary after an emergency evacuation.

The re-entry tape is constructed of white webbing with its upper end permanently attached to the girt extension.

The lower end of the re-entry tape is retained on the right-hand side of the inflatable with Velcro and snap fasteners.

3 Restraint Devices

Intermediate restraint devices are used to control the deployment sequence by restraining the unit, so that it remains folded in thirds until it becomes sufficiently pressurized to assure that it is fully extended when it first contacts the ground. The primary restraint mechanism is a precision tension fuse, frangible link, which separates at a predetermined force value. Supplemental Velcro panels are used in conjunction with the tension fuse to assure repeatable, reliable deployment characteristics. These supplemental panels are sewn to webbing straps which are permanently attached to the inflatable adjacent to the frangible link attach points.

4 Relief Valves

Relief valves are installed (one in upper tube and one in lower tube) on the underside of the inflatable to limit the maximum pressure, due to internal gas temperature changes, to maximum operational pressure.

5 Lighting System

The lighting system consists of an integral power unit, lamp harness assemblies, and built-in test circuitry and test connector. The system is used to provide directional guidance for evacuees, as well as general lighting of the sliding surface and immediate area at the base of the inflatable.

The power unit is composed of multiple primary cells. The cell stack internal wiring, test circuiting and activation switch are encapsulated in a tubular housing. The power unit is located on the underside of the inflatable in a nylon fabric pouch attached to the inflation reservoir sling. To allow for the power unit to be easily checked and replaced without disturbing the packed inflatable, the pouch is attached off center to the left and reinforced with a plastic cylinder insert. The power unit has the capability to provide power to the lamps for a maximum of up to one hour and a minimum of 10 minutes at low ambient temperature. Two electrical lamp harness assemblies are attached to the slide/raft. Each assembly runs down either side of the sliding surface and across the runway tube of the inflatable. The harness assemblies consist of incandescent tubular lamps soldered in parallel to insulated, flat, dual-lead, copper cable.

The lighting system is automatically actuated during the slide/raft deployment sequence by means of a nylon switch pin attached to the actuating lanyard. The switch pin is withdrawn from the power unit by distention of the inflatable.

(d)Raft Mode Accessories

(Ref. Fig. 006)

1 Outside Life Lines
Outside life lines serve as grasp lines for survivors in the water. The outside life lines are constructed of one-inch-wide nylon webbing and are permanently attached at intervals around the perimeter of the unit.

2 Heaving Line/Ring
A heaving line/ring is provided as a rescue aid which may be thrown to persons in the water who are unable to reach the raft. The heaving line is fabricated from a 75-foot length of polypropylene rope. One end of the line is tied off to the slide/raft at a webbing loop which is inside a stowage pocket on the slide/raft. The ''far end'' of the line has a sponge-plastic tossing ring attached by means of a bowline knot tie-off. The doughnut-shaped ring is approximately six inches in diameter.

3 Inside Life Lines
The inside life lines provide subject hand holds for assistance in rough sea conditions. They are rigged by removing them from stowage pockets on the upper surface of the slide/raft tubes and routing them through tie down patches located along the inboard sides of the upper body tubes (at the outside edges of the floor).

4 Boarding Aids
The boarding handles, in conjunction with the boarding stirrup, enable survivors to climb aboard the raft from the water. The boarding handles are constructed of lengths of red webbing and are located on top of the sliding surface (floor) at the runway end, adjacent to the boarding stirrup. The boarding stirrup is constructed of white webbing which is sewn to two fabric base patches that are permanently attached to the runway end of the lower tube, left-hand side. The webbing, in conjunction with polyethylene stiffener strips, is sewn to form a two-step webbing ladder.

5 Mooring Line/Separation from Aircraft
The re-entry tape described previously (Slide Mode Accessories) also serves as a mooring line in the raft mode. After ditching, separation of the inflatable slide/raft from the aircraft is accomplished as follows. A release handle, located beneath a cover flap on the girt, is pulled to separate the girt. The slide/raft is now free to drift away from the aircraft until the re-entry tape/mooring line becomes taut. In order to cut the re-entry tape/mooring line, a floating knife is provided.

6 Floating Knife
A floating knife is used to cut the re-entry tape/mooring line after the slide/raft has drifted approximately 25 ft. from the aircraft. It is located in a pocket on the right-hand side of the upper sill tube near the girt. It has a hook-type blade with a contour which allows cutting up to 1/2 in. diameter lines.

7 Sea Anchor
The sea anchor is located on the right-hand side near the runway tube, and is used to control the drift rate/orientation of the slide/raft in respect to the wind. The sea anchor is a cone-shaped cloth bag with a cord bridle tied off to a wire rope stiffener which is sewn into its open end. The sea anchor line is tied off at the inflatable by means

of a five-foot length of plastic-sheathed, stranded-wire rope. The wire rope prevents the line from being inadvertently cut by raft occupants.

8 Emergency Locator Radio Beacon (ELRB)

The locator beacon is a radio transmitter which transmits emergency signals simultaneously on frequencies of 121.5 and 243.0 MHz, to enable search aircraft to locate the slide/raft. The beacon is located on the left-hand side of the slide/raft at the sill end on the bottom side of the upper tube. The locator beacon is automatically activated by a lanyard which is tensioned and pulls an actuation pin upon raft inflation. To conserve battery power, the beacon may be turned off by re-inserting the lanyard key into the beacon ON/OFF switch receptacle. The battery has an operational life of 48 hours. Beacon operation is indicated by a light illuminating on the base of the operational antenna. The antennas are armed upon water contact with a backup manual pull switch provided at the base of each antenna.

9 Locator Light

A locator light, operated by a water-activated battery, is used as a means of illumination to provide a locating source at night. It is located on top of the second canopy support tube from the sill on the right-hand side of the unit. The locator light has a minimum illumination life of eight hours continuous operation. The light is attached to the canopy support tube by Velcro fasteners so that when the canopy is erected the light may be easily removed from the support tube and installed on the canopy.

10 Survival Kit Assembly

A survival kit is secured by nylon cord to the girt and is packed against the packboard, adjacent to the reservoir and valve assembly. The survival kit contains the following components:

- Sea Dye Marker
- Bailing Bucket
- Dehydrated Sponge
- Penknife
- Whistle
- Repair Plugs
- Water-Activated Flashlight
- Signal Flares, Day & Night
- Water-Purification Tablets
- First Aid Kit
- Canned Water
- Canopy (packed in separate valise) and Canopy Masts
- Hand Pump

11 Canopy

The canopy is constructed of a lightweight, high-visibility orange urethane-coated nylon fabric. The canopy is used as a protective shield against various environmental conditions, and is packed against the packboard, adjacent to the survival kit.

The perimeter of the canopy is supported by the inflatable stanchions described in slide mode accessories. Three metal canopy masts are provided to support the center of the canopy. The masts are constructed

from aluminum and consist of two sections joined together by threaded connections.

To install the canopy, remove the canopy and three masts from the survival container. Distribute the canopy masts to each of three persons located near the canopy mast supporting patches that are located along the lane divider tube of the slide/raft. Spread the canopy over the raft with its zipper opening located at the runway end of the raft. Station one person at each of the inflatable canopy support tubes. Have persons on the runway end of the raft grasp the canopy and place its edge up over the canopy support tubes. Attach the runway end of the canopy by mating the hook/pile Velcro and tying off the webbing ties that are located at the top of each canopy support tube. Position masts on Velcro pads at the raft center and hold them vertical. Place grommets in top of canopy over metal masts. If cross flow ventilation is desired, grasp bottom edges of canopy and roll up side panels. Retain the furled side panels by their webbing ties. The canopy can also be used as a water collector by removing a center canopy mast to form a trough for rain water collection.

12 Hand Pump/Topping-Off Valves.

The hand pump is located in the survival kit assembly. The hand pump is used to pump up the raft or repressurize tube(s) after repair. To use the hand pump, insert it clockwise into a topping-off valve. Tighten hand pump in valve until valve opens against the stop. Operate the pump by squeezing the ''bellows'' in a manner similar to playing a concertina. Close the valve by turning the pump counter-clockwise until valve closes and hand pump disengages. The topping-off valves are located on the upper and lower tube structures, on both the top and bottom surfaces.

(2)Inflation System

(Ref. Fig. 008)

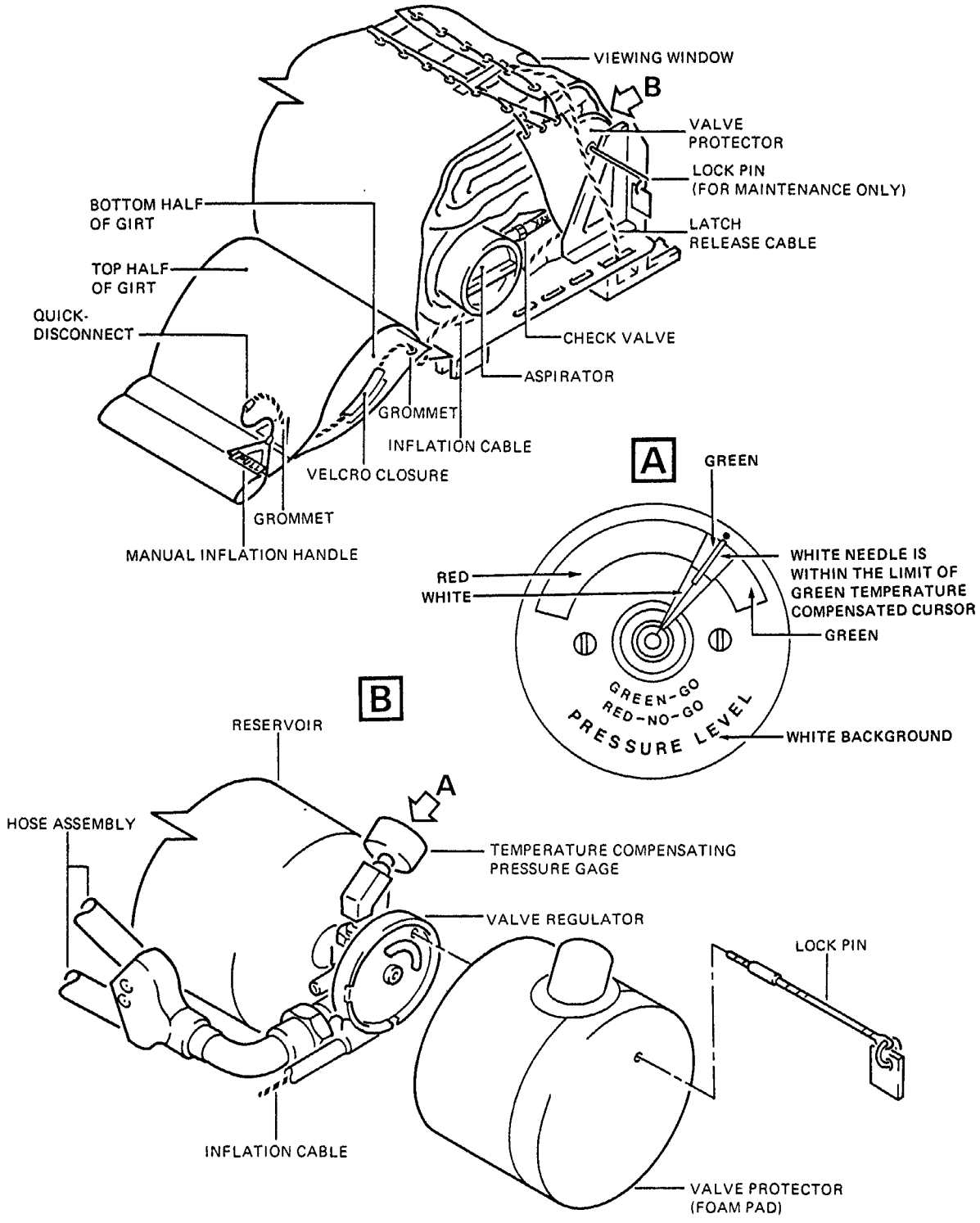
(a)Reservoir

The inflation reservoir is installed in a urethane-coated nylon fabric sling which is attached by webbing straps to the underside of the inflatable lower tube structure. The reservoir is a composite structure consisting of a seamless aluminum liner reinforced with overlapping Kevlar filaments bonded with epoxy resin.

(b)Valve/Regulator

A valve/regulator assembly is installed on the inflation reservoir, maintaining discharge pressure approximately constant throughout the inflation cycle. A ball-type valve section retains the gas charge, then provides full flow when the valve is opened by tensioning of the inflation cable assembly as the inflatable falls from the pack during door opening in the emergency mode. Installed in the pulley housing of the valve are a frangible disc relief device to limit excessive pressure build-up in the storage reservoir, and a filler valve for charging the inflation reservoir. For maintenance purposes, the valve assembly is safetied by use of a lock pin.

The valve incorporates a direct-reading temperature-compensated gage, which indicates the gas charge in the inflation reservoir in relation to ambient temperature. When the inflation reservoir is fully charged, the indicator needle is within the limits of the green 'GO' band. The

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Inflation System Components
Figure 008

'GO' band moves as a function of temperature. The indicator pointer moves as a function of the reservoir pressure.

(c)Manual Inflation Assembly

A manual inflation handle assembly serves as a backup system should the slide/raft not inflate automatically when deployed over the door sill. The manual inflation handle is triangular in shape, constructed of red webbing and secured with Velcro to the girt assembly. The handle is connected through a quick-disconnect to the inflation cable which is connected to the valve/regulator.

(d)Aspirators

Aspirator assemblies (two per slide/raft) are located one in the upper tube structure on the right-hand side and the other in the lower tube structure on the left-hand side of the inflatable. They comprise an inlet housing section, which contains a nozzle array, and a cylindrical diffuser/mixing tube. The inlet housing is equipped with one-way flappers in the ambient air inlet, which act as a check valve. The aspirator functions as a suction device to draw ambient air by the induction effect from the expansion of high-pressure stored gas through the nozzle array. Thus, inflation time is rapid, and reservoir size minimized.

(e)Hose Assembly

A flexible hose assembly interconnects the inflation reservoir with the aspirators. The hose assembly is equipped with swivel end-fittings at its valve/regulator and aspirator ends. Check valves are fitted at the aspirator ends to prevent a reverse airflow.

(3)Packboard Assembly

(Ref. Fig. 009)

R **ON A/C 105-200,

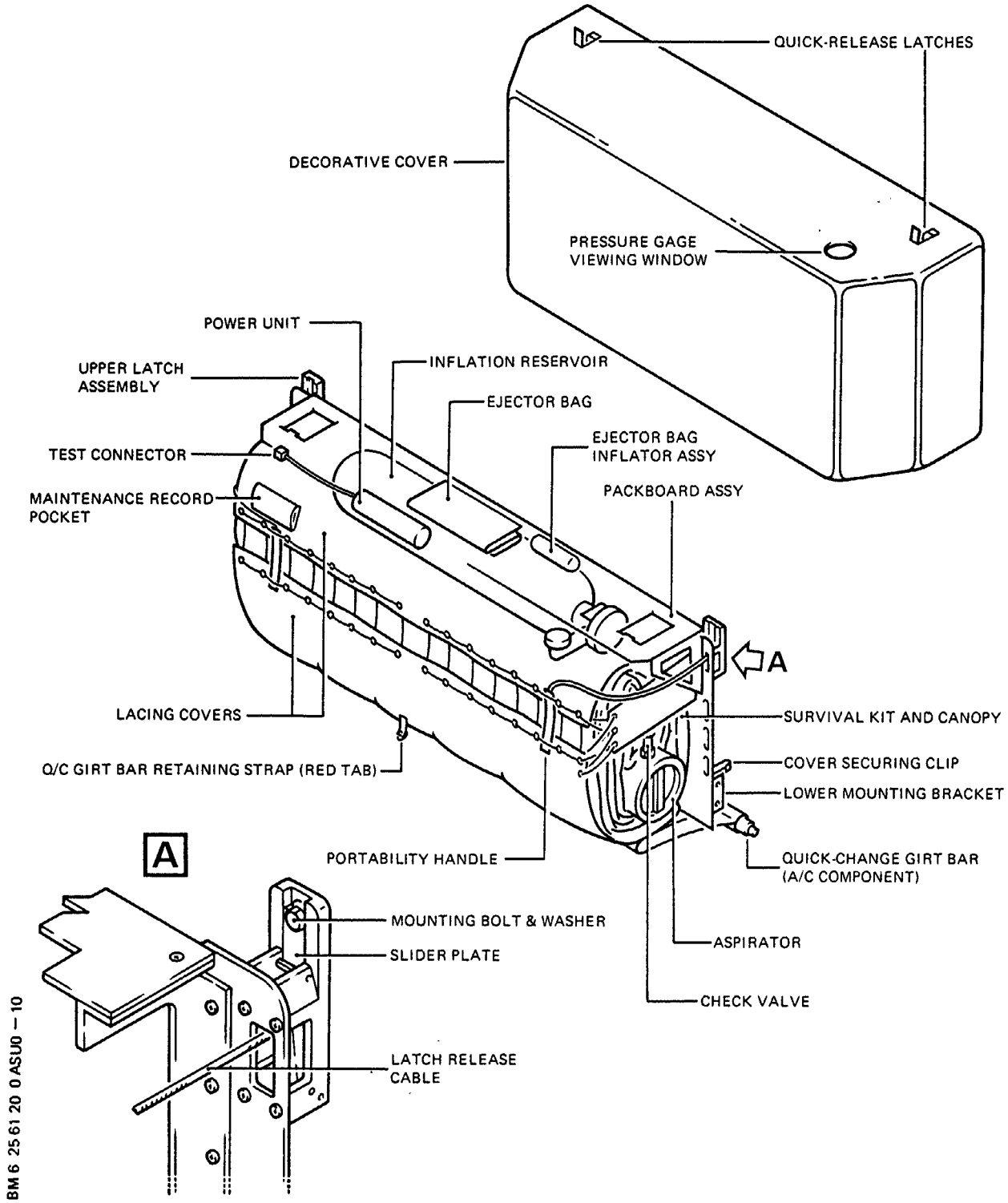
R Post SB 25-2135 For A/C 105-200,

R (Ref. Fig. 010)

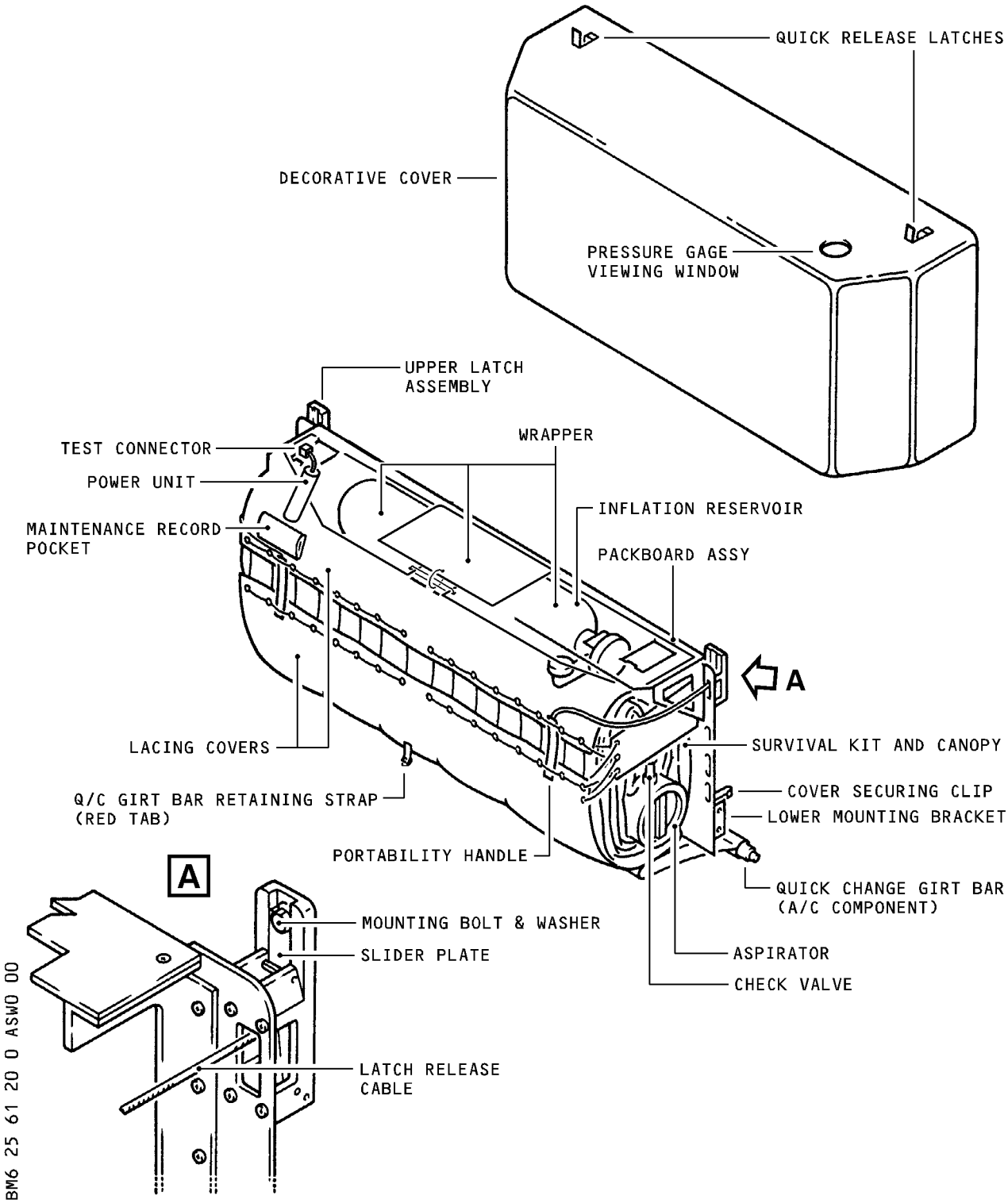
R **ON A/C ALL

(a)The packboard is of composite construction and serves as a mounting platform for the ejection system components, the lacing cover with release mechanism, and the mounting brackets which attach the slide/raft system to the passenger/crew door structure. The upper mounting brackets have quick-release latches incorporated, which allow the packboard with packed inflatable to be readily separated from the aircraft door and transported to another door location to deploy the slide/raft as dictated by an emergency situation. The packboard assembly in conjunction with its lacing cover, provides structural support and retains the folded inflatable and inflation reservoir.

(b)The lacing cover assembly consists of an upper and a lower half, each constructed of yellow urethane-coated nylon fabric. The upper half is attached to the packboard top edge and laced to the lower half. The lower half is retained to the lower edge of the packboard by the la-




Slide/Raft (Packed)
Figure 009




Slide/Raft (Packed)
Figure 010

cing cover release mechanism.

(c)The release mechanism permits the lacing cover to be freed from the packboard allowing the inflatable to drop overboard (deploy). This mechanism is a tubular structure (aluminum) with eight pairs of retaining pins equally spaced along the tubular structure. The retaining pins are for engaging ball terminated cables which retain the lacing cover to the lower edge of the packboard. A cable attached to the girt bar opens the separation mechanism latch when it is tensioned as the aircraft door opens. Opening of the latch frees the lacing cover and the inflatable drops overboard. A breakaway wire retains the cable within the latch and prevents inadvertent opening of the lacing cover/deployment of the inflatable.

(d)An ejection system, to assure positive deployment of the inflatable, is mounted on the inside surface of the packboard. The ejection system consists of a high-pressure air reservoir manifolded via a cable-actuated inflation valve to an ejection bag. The bag is constructed of a lightweight yellow urethane-coated nylon fabric and is attached to the inside of the packboard. The ejection system ensures the packed inflatable is deployed downward from the packboard.

(4)Decorative Cover

R **ON A/C 105-200,

R Post SB 25-2135 For A/C 105-200,

(a)The packboard is of composite construction and serves as a
R mounting platform for the lacing cover with release mechanism, and the mounting brackets which attach the slide/raft system to the passenger/crew door structure. The upper mounting brackets have quick-release latches incorporated, which allow the packboard with packed inflatable to be readily separated from the aircraft door and transported to another door location to deploy the slide/raft as dictated by an emergency situation. The packboard assembly in conjunction with its lacing cover, provides structural support and retains the folded inflatable and inflation reservoir.

(b)The lacing cover assembly consists of an upper and a lower half, each constructed of yellow urethane-coated nylon fabric. The upper half is attached to the packboard top edge and laced to the lower half. The lower half is retained to the lower edge of the packboard by the lacing cover release mechanism.

(c)The release mechanism permits the lacing cover to be freed from the packboard allowing the inflatable to drop overboard (deploy). This mechanism is a tubular structure (aluminum) with eight pairs of retaining pins equally spaced along the tubular structure. The retaining pins are for engaging ball terminated cables which retain the lacing cover to the lower edge of the packboard. A cable attached to the girt bar opens the separation mechanism latch when it is tensioned as the aircraft door opens. Opening of the latch frees the lacing cover and the inflatable drops overboard. A breakaway wire retains the cable within the latch and prevents inadvertent opening of the lacing cover/

deployment of the inflatable.

R (d)A wrapper system is bonded to the slide/raft pack and assists the
R clean drop of the pack from the aircraft door.

(4)Decorative Cover

R **ON A/C ALL

(Ref. Fig. 009)

R **ON A/C 105-200,

R Post SB 25-2135 For A/C 105-200,

R (Ref. Fig. 010)

R **ON A/C ALL

The decorative cover encapsulates the packboard assembly and the packed inflatable. It is constructed of Kevlar-reinforced phenolic and is color-coordinated with the interior of the aircraft. Quick-release latches provide an expedient means of removing the cover from the packboard assembly. The cover has a pressure gage viewing window to permit monitoring of the gas charge pressure of the inflation reservoir.

C. Operation - Deployment Sequence

(1)Activation

With the door Emergency Control Handle (ECH) placed in the **ARMED** position, the girt bar assembly is mechanically fastened to the aircraft floor girt bar fitting. Lifting the door interior control handle then initiates the deployment sequence.

(2)Ejection

(Ref. Fig. 011)

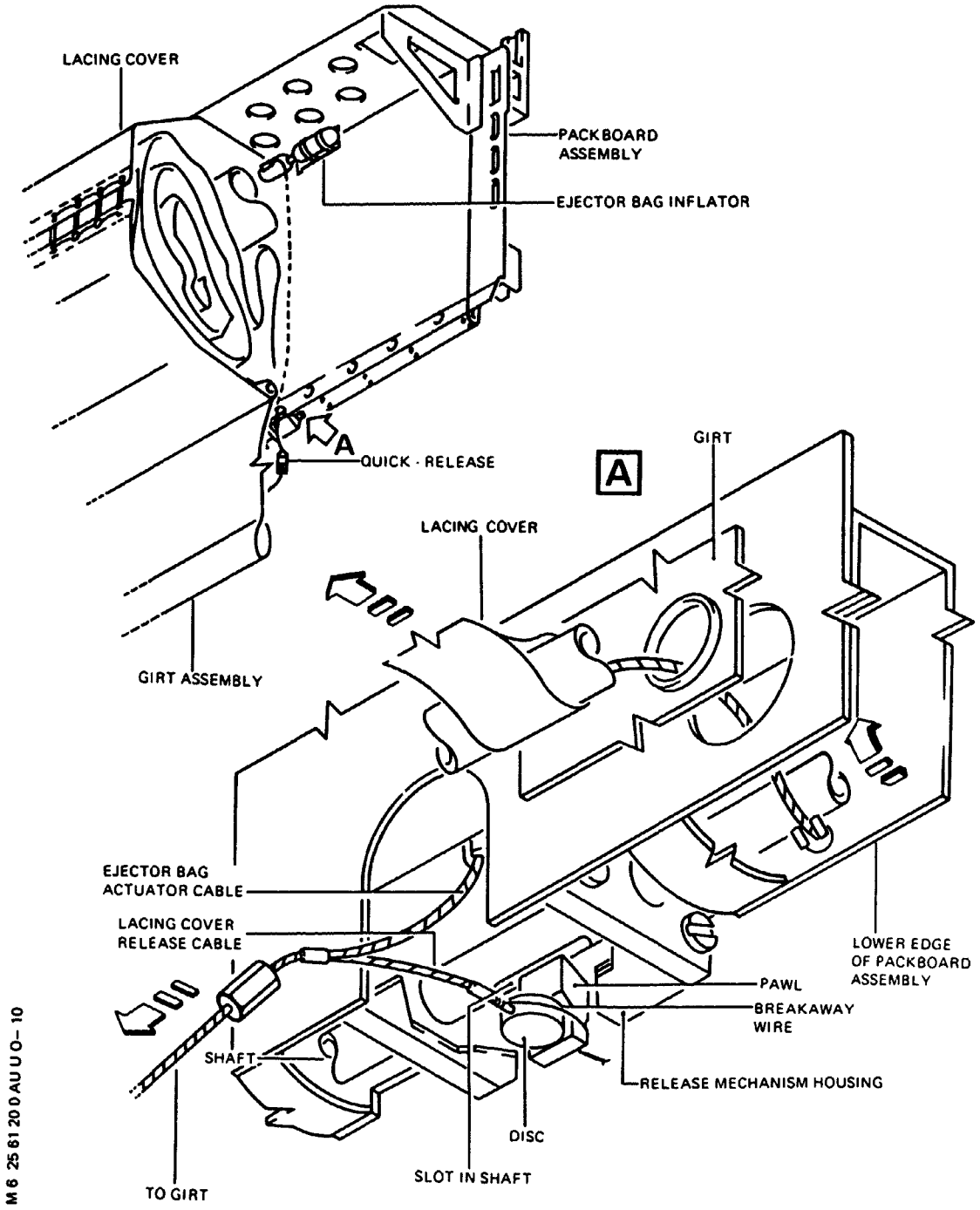
R **ON A/C 105-200,

R Post SB 25-2135 For A/C 105-200,

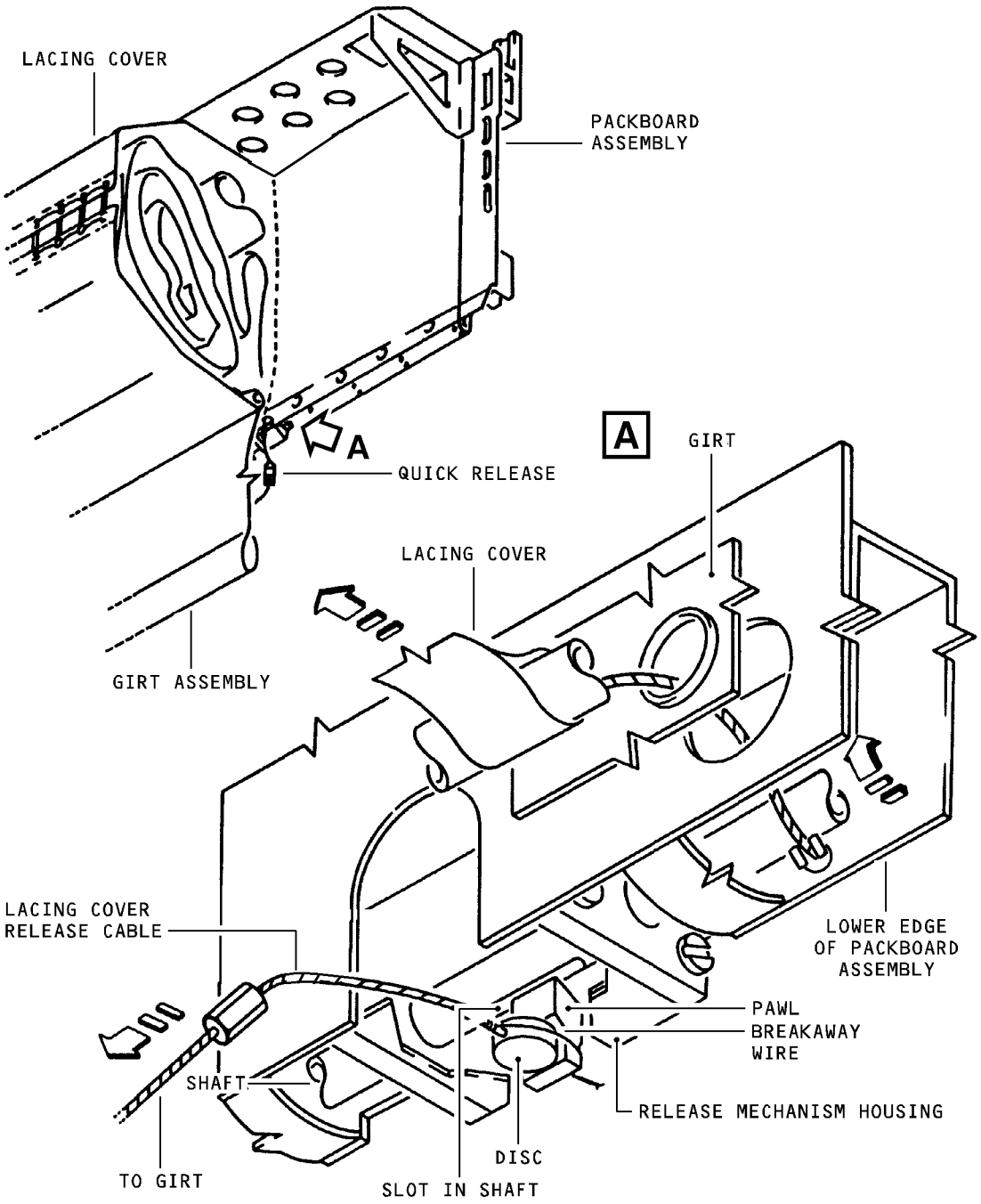
R (Ref. Fig. 012)

R **ON A/C ALL

During outward movement of the aircraft door, the ejector bag and lacing cover actuation/separation cable assembly, which is attached to the underside of the girt, is tensioned, releasing the latch mechanism and allowing the tubular structure located along the lower edge of the packboard to rotate, permitting the lacing cover to separate. Immediately following lacing cover separation, the ejector bag inflator actuating lever punctures the reservoir, causing the gas charge to inflate the ejector bag. As the ejector bag inflates, it exerts a downward force




S/R Lacing Cover Release Mechanism
Figure 011

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S/R Lacing Cover Release Mechanism
Figure 012

R

onto the packed inflatable and inflation reservoir assembly, assuring a positive ejection from the decorative cover and packboard assembly.

(3)Inflation

R **ON A/C 105-200,

R Post SB 25-2135 For A/C 105-200,

R During outward movement of the aircraft door, the lacing cover
R actuation/separation cable assembly, which is attached to the
R underside of the girt, is tensioned, releasing the latch mechanism and
R allowing the tubular structure located along the lower edge of the pack-
R board to rotate, permitting the lacing cover to separate. Immediately
R following lacing cover separation, the downward force from the
R packed inflatable and inflation reservoir assembly, assuring a
R positive ejection from the decorative cover and packboard assembly.
R The wrapper, a passive device consisting of low friction fabric which
R surrounds the inflatable and inflation system within the pack,
R holds these components together and provides a low friction surface
R to slide along the inside of the packboard which assists the clean
R drop of these components from the packboard.

(3)Inflation

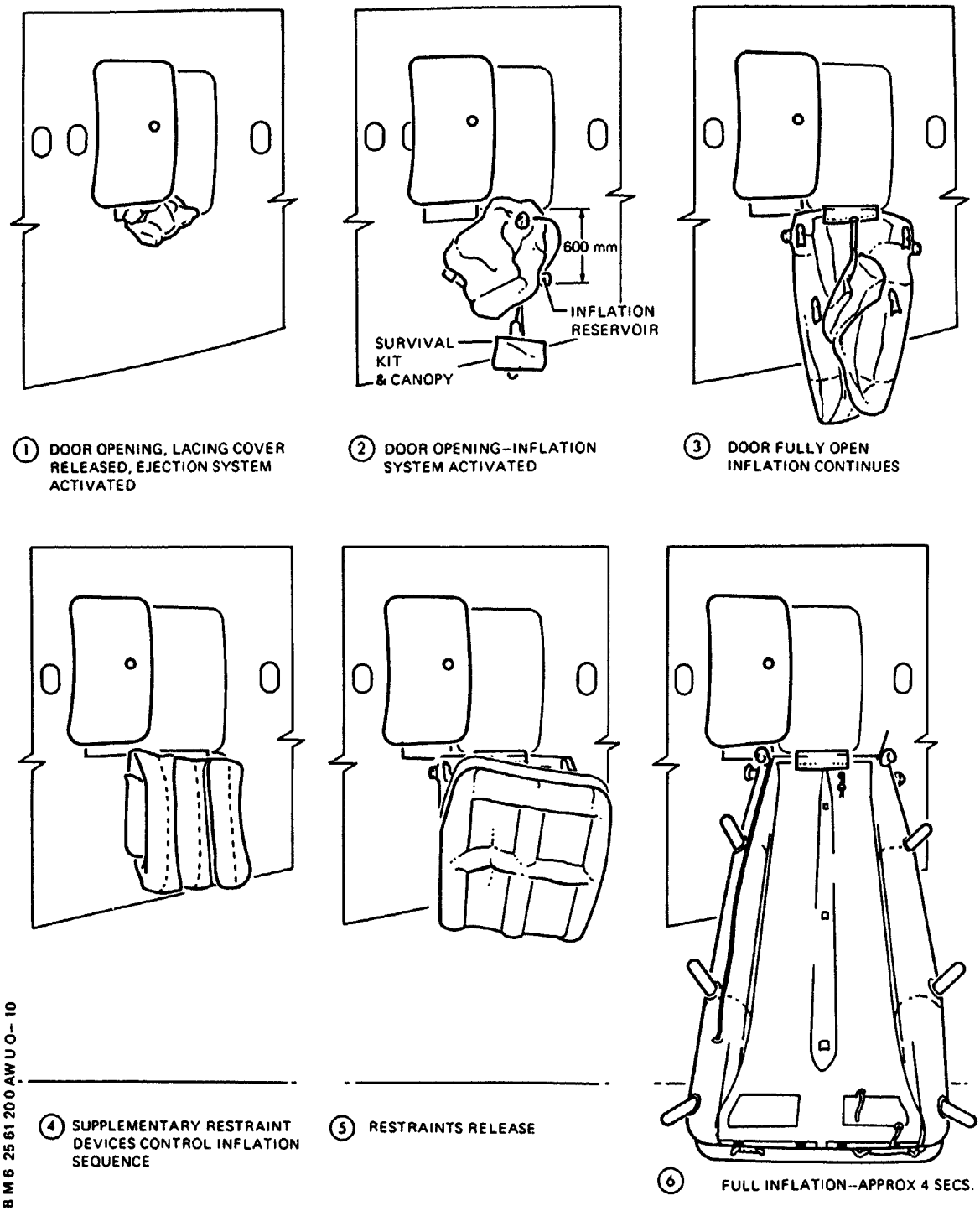
R **ON A/C ALL

(Ref. Fig. 013)
For automatic activation of the inflation system, the reservoir assembly must drop a distance of at least 600 mm below the door sill. As the inflatable is ejected from the decorative cover and packboard assembly, the slide/raft inflation actuation cable is tensioned to pull open the valve/regulator assembly, allowing the stored gas within the reservoir to be discharged into the aspirators through the hose assembly.
As the stored gas is expanded through the nozzles in the aspirator, a partial vacuum is created within the mixing tube section, which in turn inducts ambient air into the aspirator inlet housing. The mixture of ambient air/stored gas charge then flows through the diffuser section of the aspirator mixing tube into the inflatable. When gas pressure in the inflatable increases, back flow of the gas mixture is initiated (i.e. the aspirator stalls). This condition causes the flappers to close and the remaining stored gas charge ''tops off'' the inflatable automatically to its operating pressure. Relief valves in the slide/raft prevent overpressurization. A pull handle is mounted on the girt assembly to permit inflation to be manually actuated in the event that automatic inflation is not initiated.

D. Portability Instructions

CAUTION : THESE INSTRUCTIONS ARE ONLY APPLICABLE FOR SLIDE/RAFT REMOVAL DURING EMERGENCY SITUATIONS.

If after ditching or an emergency landing, a passenger/crew door is inoperative, the slide/raft at that door can be deployed from any alternative


600 mm
INFLATION RESERVOIR
SURVIVAL KIT & CANOPY
1 DOOR OPENING, LACING COVER RELEASED, EJECTION SYSTEM ACTIVATED
2 DOOR OPENING–INFLATION SYSTEM ACTIVATED
3 DOOR FULLY OPEN INFLATION CONTINUES
4 SUPPLEMENTARY RESTRAINT DEVICES CONTROL INFLATION SEQUENCE
5 RESTRAINTS RELEASE
6 FULL INFLATION–APPROX 4 SECS.
BM6 25 61 200 AW U 0–10

Slide/Raft Inflation Sequence
Figure 013

passenger/crew door which is useable. Removal of the decorative cover reveals a label on the upper lacing cover that gives instructions on releasing the slide/raft unit from the door. A second label located on the reverse side of the packboard continues with instructions on transporting and deploying the unit. The portability operating procedure is as follows:

(1) Remove decorative cover by pushing two release buttons located on cover top surface.
(2) Press lever to release the girt bar, hinge side underneath container.
(3) Pull accessible red handles on left and right-hand side to release the packboard from the door.
(4) Grab sides of packboard at cutouts and lift unit off door mountings simultaneously.
(5) Invert unit.
(6) Retain the girt bar by means of the red tab.
(7) Carry unit to alternate door.
(8) Place in front of door with ditching decal on top and arrows pointing outboard.
(9) Press the lever of the old girt bar release mechanism and remove the girt bar.
(10) Unsnap the red tab. Insert the girt bar into the fittings.
(11) Roll unit out of the door.
(12) If necessary, pull manual inflation handle to initiate inflation of slide/raft.

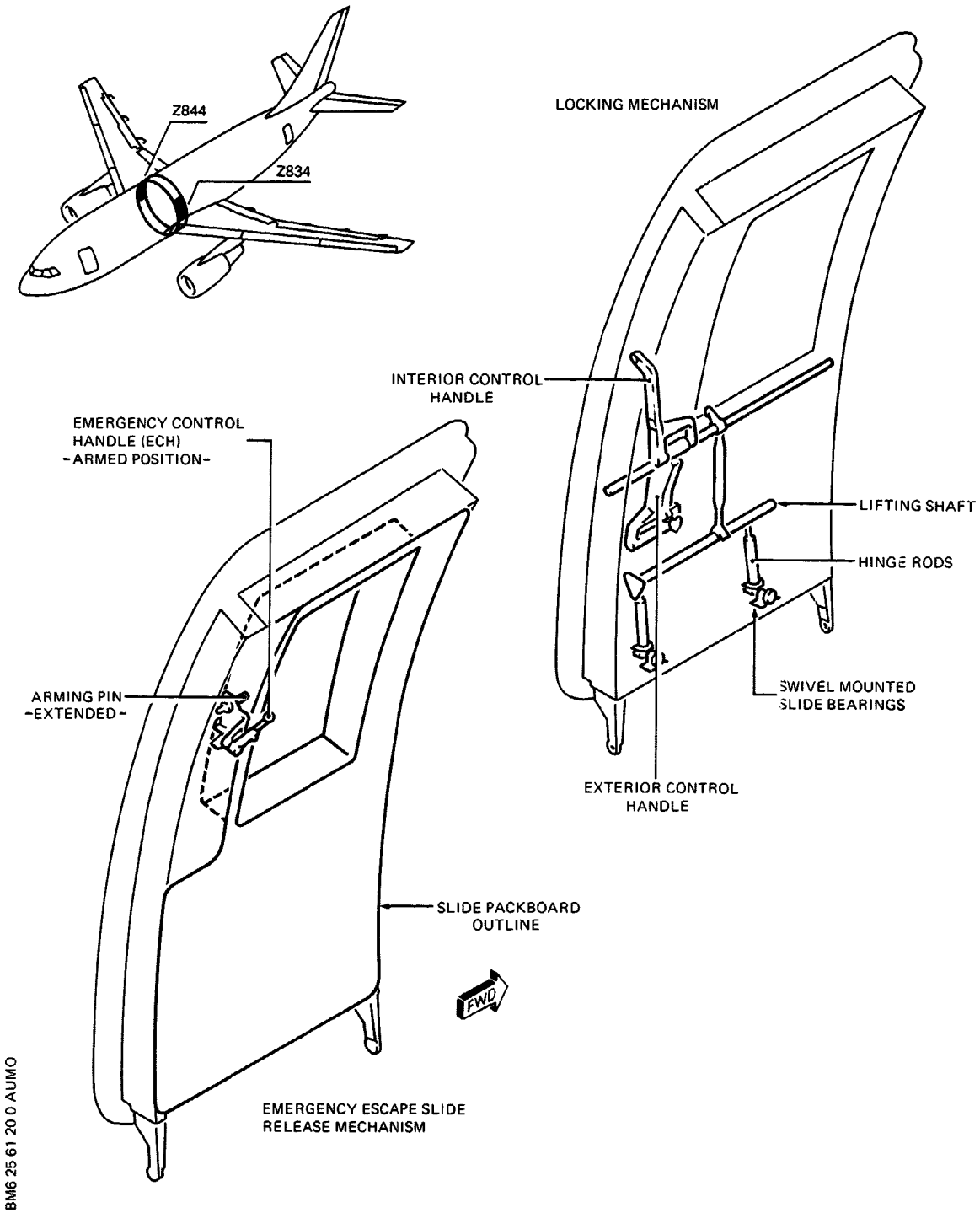
4. Emergency Exit Door Interface

A. General Description
The emergency exits located above the wings on each side of the fuselage are incorporated in the passenger compartment for emergency evacuation purposes only. Opening and closing of the exits is controlled by interior and exterior control handles. The exits open outwards and downwards until nearly parallel to the wings.

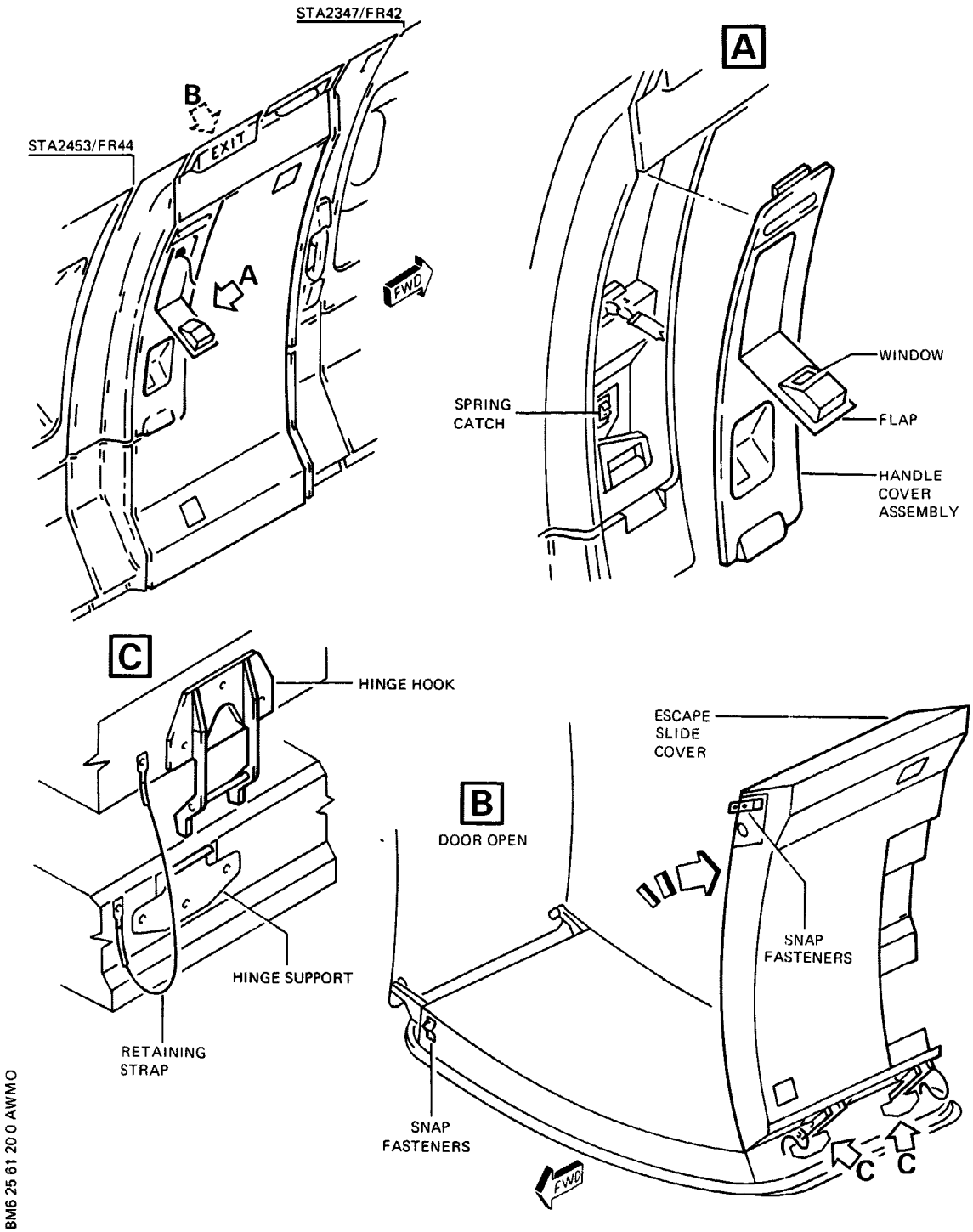
B. Emergency Escape Slide Release Mechanism
(Ref. Fig. 014)
The escape slide release mechanism functions to initiate the escape slide deployment sequence. The mechanism is manually operated by the two-position emergency control handle (ECH).
In operational mode, emergency-ARMED or normal-DISARMED, the exits can be opened from inside or outside the aircraft. In the ARMED mode, opening the exit from inside the aircraft initiates the escape slide deployment automatically. When opened from outside, the ECH returns automatically to DISARMED before the exit opens.
Placing the ECH in the ARMED position allows the mechanism arming pin to engage with the escape slide arm/disarm mechanism. Placing the ECH in the DISARMED position retracts the arming pin into the door structure. A safety pin secures the ECH in the DISARMED position only.

C. Emergency Exit Door Linings
(Ref. Fig. 015)
The overwing escape slide is packed and mounted on the exit door structure. The slide assembly is enclosed with a decorative cover which is hinged at the door top edge and retained at the bottom on either side with snap fasteners. A handle cover assembly completes the door lining and covers the interior control handle and Emergency Control Handle (ECH). The handle cover is retained in position by a spring catch and must be removed before opening the emergency exit. A spring-loaded flap is provided in the handle cover to allow access to the ECH.

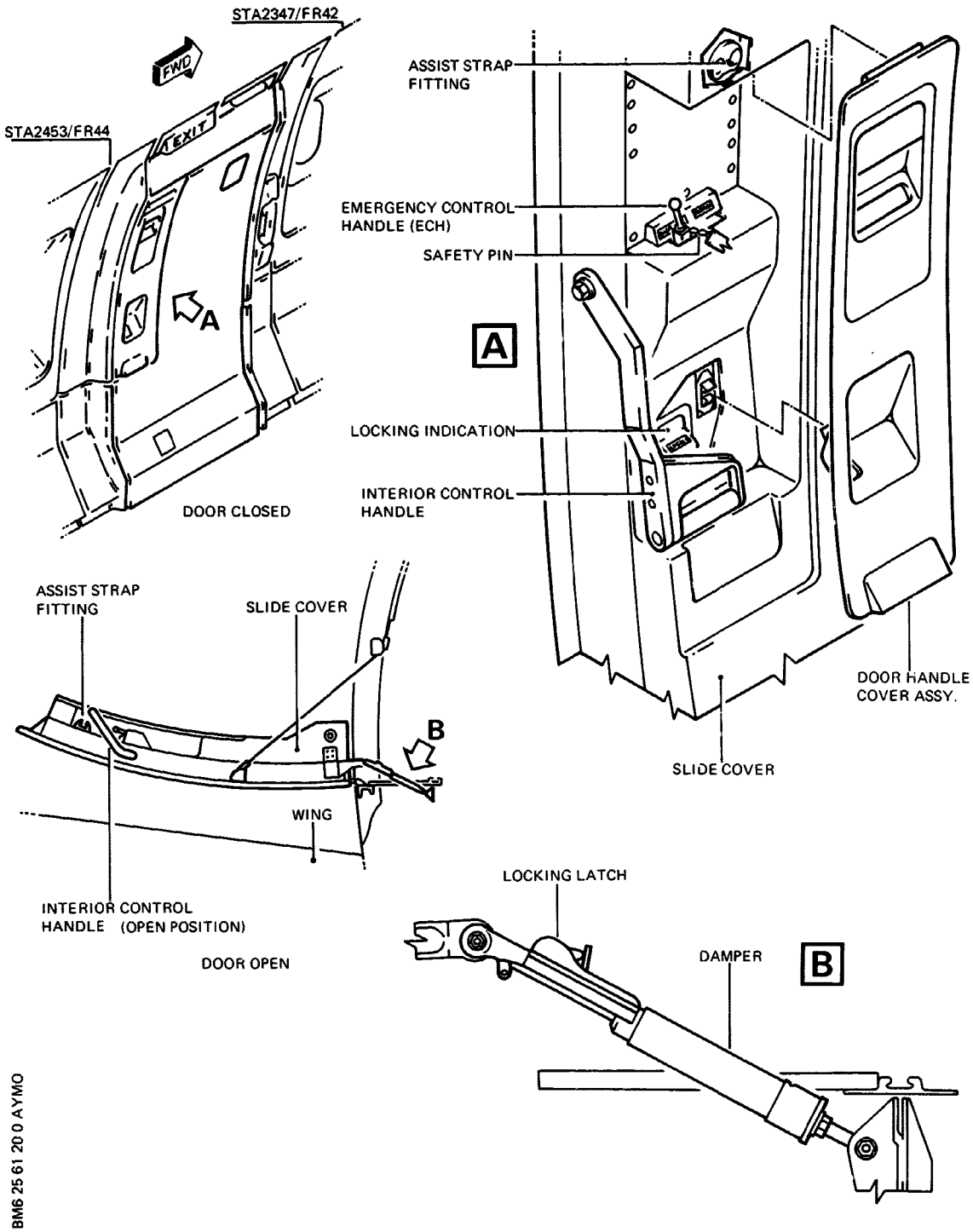
D. Door Operation
(Ref. Fig. 016)
(1) Normal door opening from inside.
Gain access to ECH and interior control handle by removing door handle cover assembly. For normal operation, the ECH must be in the DISARMED position. Lifting the door interior control handle rotates the lifting shaft, which in turn lifts the door via the hinge rods and swivel mounted slide bearings, and positions the locking indicator to UNLOCKED. The opening travel speed of the exit is hydraulically limited by dampers installed between the lower door structure and the fuselage. An automatic lock on each damper engages to secure the door in the open position.
(2) Normal opening from outside
When opening the door from outside, the door lever cover assembly located on the door interior, should, if possible, first be removed to prevent it from being damaged. Using the exterior control handle to open the door




Typical Emergency Exit Door Mechanisms
Figure 014




Emergency Exit Door Linings
Figure 015




Emergency Exit Door Operation
Figure 016

will automatically place the ECH in the DISARMED position. The door opening then functions identically to the method described for opening from inside.

(3)Emergency opening

Emergency opening of the door is possible only from inside. Placing the ECH in the ARMED position engages the arming pin with the escape slide arm/disarm mechanism.

Lifting the interior control handle initiates the opening sequence that is similar to the normal opening, with the exception that as the door, with escape slide attached, opens outward, tension is applied to the escape slide inflation cable to initiate the deployment sequence.

(4)Closing

To aid in raising the door to a closed position, an assist strap must be secured to the respective door fitting. Release of the locking latch at each damper unlocks the door. Use the assist strap to raise and hold the door closed. The hinged panel at the top of the door frame, must be held down while closing the door. The interior control handle is then pulled downwards to lock the door closed. The locking indicator will change from UNLOCKED to LOCKED.

5. Overwing Escape Slide

A. General

The overwing escape slides are the single-lane type complete with access ramp, having an automatic deployment mode. The LH and RH overwing slides are not interchangeable due to the evacuation route on each side being towards the aircraft nose. Each escape slide consists of the following components:

(1)Inflatable
(2)Inflation System
(3)Packboard Assembly

B. Component Description

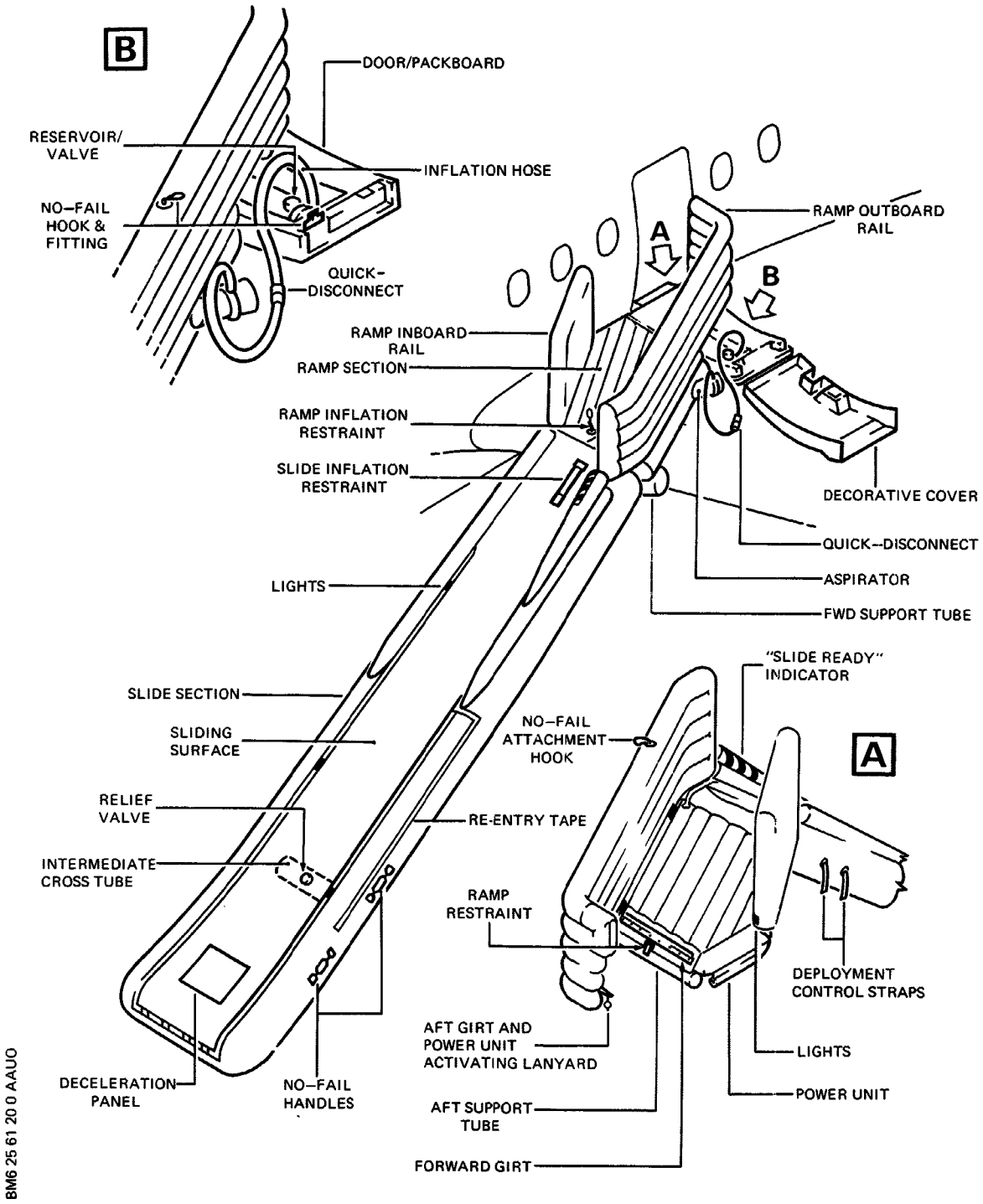
(1)Inflatable

(Ref. Fig. 017)

The overwing slide for the Emergency Exit is comprised of an inflatable ramp section and a single-lane slide. The ramp and slide sections are joined mechanically and pneumatically to form a single integrated structure.

(a)Ramp Section

The ramp platform is constructed as a continuous air-holding structure comparable to an air mattress to provide a continuous inflated platform. The ramp is directly connected to the door-mounted packboard by means of girt attachment strips. To preclude tripping, the ramp has a 'no step' transition at its intersection with the door/packboard. The ramp is supported by 'crosswise' tubes at the wing leading edge and at the exit door forward edge to provide a level walk surface. The forward support tube at the wing leading edge has controlled inflation to minimize dynamic loading on the Kruger flaps during the deployment cycle. One standard-flow aspirator, for purposes of inflation of both the ramp and slide sections, is positioned at




Overwing Escape Slide (Inflated)
Figure 017

the ramp outboard edge.
To provide evacuee containment and give a positive sense of security to evacuees, the inboard and outboard ramp edges are provided with rails. The outboard rail is 813 mm (32 in.) in height along it's entire length. The construction of the outboard rail is similar to the ramp platform in that it is an air mattress structure. The outboard rail is secured to the aft edge of the packboard by a girt attachment strip. The inboard rail has a solid fabric panel supported by a framework formed of air-holding tubes.

(b)Slide Section
The single-lane slide is a simple rectangular structure formed by a pair of longitudinal 'body' tubes connected by mitered intersections to the sill and runway tubes. An intermediate cross tube is added to minimize body tube twist or roll motions under load to prevent the sliding lane from being formed into a 'trough' which would adversely affect evacuation rate. The air-holding tube upper surfaces which can be contacted by evacuee footwear, are protected by floor fabric to avoid penetration of the air-holding chamber. The sliding surface or floor of the slide is attached as a taut membrane commencing at the top of the sill tube, extending to the top of the runway tube, and to the inside of the longitudinal tubes at varying heights along their length. This composite tube/floor structure can handle up to four evacuees without collapsing.
Approximately the lower one-fourth of the slide body is curved to form a 'hook' contour for transitioning the angle of the sliding surface at the runway end. This transition supplements the braking action of the urethane-coated deceleration panel at the runway end. The deceleration panel provides positive deceleration to the evacuees that assures they are brought to an upright position and are able to walk away from the slide.
Side rail tubes located along the body tubes at the sill end, provide effective evacuee containment. An additional outboard side rail, being the last component inflated, is utilized as a 'slide ready' indicator.

(c)Re-entry Tape
The re-entry tape is provided as an aid in reboarding the aircraft if necessary after an emergency evacuation. Constructed of white webbing, the re-entry tape has one end permanently attached to the ramp section floor, and the remainder retained at intervals along the slide outboard body tube with Velcro and snap fasteners.

(d)Restraint Devices
Restraint devices are used to control the deployment sequence of the inflatable and are color coded as to their release strength. The ramp section is retained such that it remains folded until becoming sufficiently pressurized to assure a track forward towards the aircraft nose, allowing the slide to deploy inboard of the engine. The slide inflation is also controlled by restraint devices, so that it remains folded in thirds until becoming sufficiently pressurized to assure full extension upon ground contact.
The primary restraint mechanism utilized on both ramp and slide is a precision tension fuse (frangible link) which separates at a predeter-

mined force value. Supplemental Velcro panels are used in conjunction with the tension fuse to assure repeatable, reliable deployment characteristics. These supplemental panels are sewn to webbing straps which are permanently attached to the inflatable. Nylon webbing restraint bands with Velcro closures envelope the folded ramp/slide to provide additional positive control during deployment.

(e)Relief Valve

A relief valve is installed on the intermediate cross tube to limit the maximum pressure due to internal gas temperature changes to a maximum operational pressure.

(f)No-fail Handles

In case of pressure loss within the inflatable, no-fail handles constructed of webbing are located on both body tubes at the runway end to allow for the deflated slide to be utilized as a chute. Additionally a snap-hook attached to the top of the outboard rail of the ramp section may be snapped into a fitting adjacent to the top forward packboard mount to provide a more stable attachment of the deflated slide to the aircraft. The no-fail handles are grasped by persons standing on the ground and the slide is extended to form a hand-held evacuation chute.

(g)Lighting System

The ramp and slide have a full-length lighting system comprised of an integral power unit, lamp harness assemblies and built-in test circuitry. The system is used to provide directional guidance for evacuees as well as general lighting of the ramp, sliding surface and immediate area at base of the slide.

1 The power unit (battery) is located on the underside of the inboard ramp section in a permanently attached nylon fabric pouch. The unit is composed of multiple primary cells. The cell stack internal wiring, test circuiting and activation switch are encapsulated in a tubular housing. This installation allows for the power unit to be easily checked and replaced without disturbing the packed inflatable. The power unit has the capability to provide power to the lamps for a maximum of up to one hour and a minimum of 10 minutes at low temperature.

2 Two electrical lamp harness assemblies are attached to the ramp and slide. Each assembly runs along either side of the ramp, down along the sliding surface and across to join at the slide runway tube. The harness assemblies consist of incandescent tubular lamps, soldered in parallel to insulated, flat, dual-lead, copper cable.

3 The lighting system is automatically actuated during the ramp deployment sequence by means of a nylon switch-pin attached to the actuating lanyard. The lanyard is then attached with a snap fastener to the aft girt so that by distension of the ramp, the switch-pin is withdrawn from the power unit.

(2)Inflation System

The inflation system for the overwing slide consists of a stored gas source (reservoir), an inflation valve/regulator assembly and an aspirator, supplied with the stored (primary) gas mixture through a flexible hose.

(a)Inflation reservoir assembly

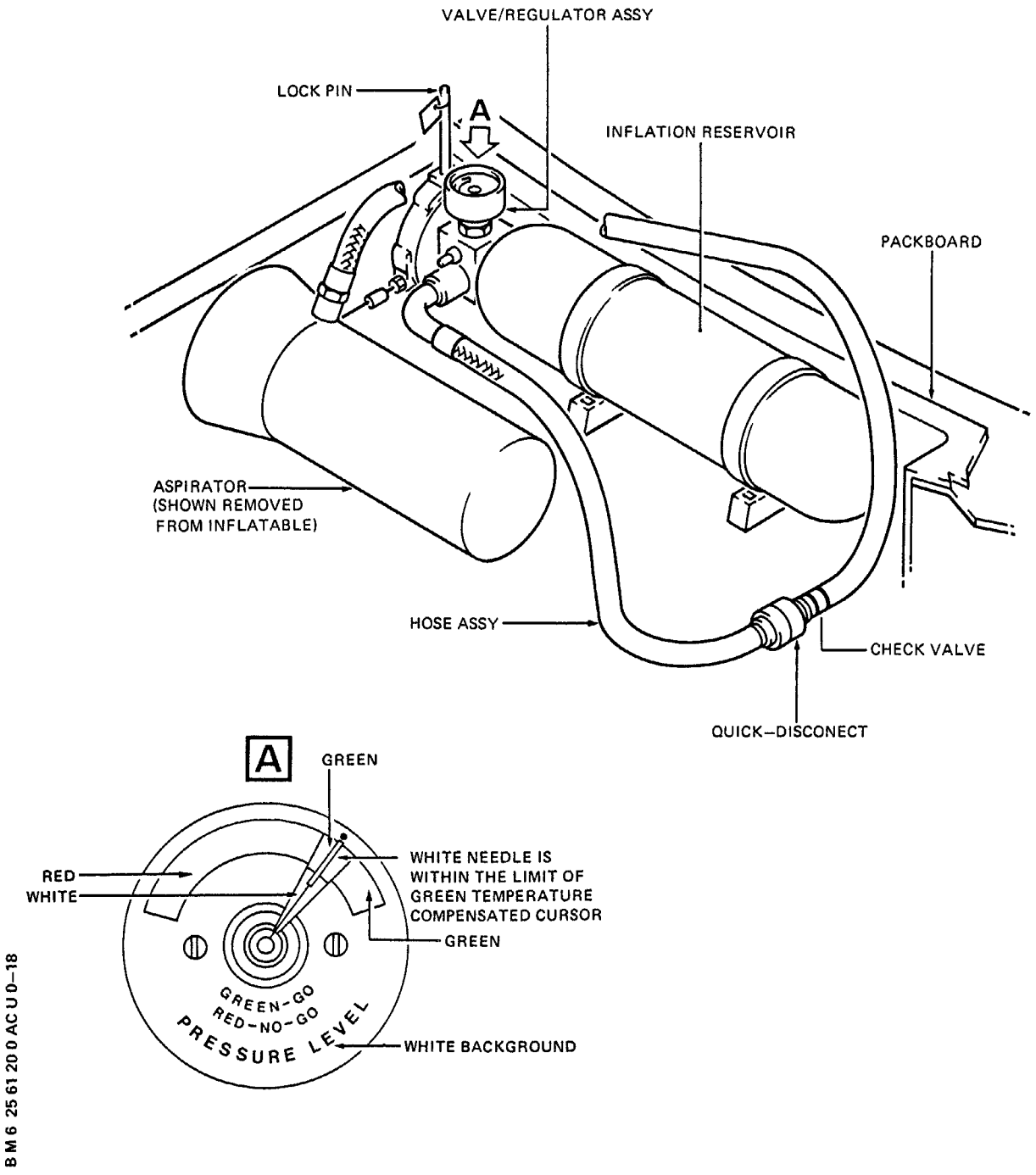
(Ref. Fig. 018)
The inflation reservoir and inflation valve form the inflation reservoir assembly that is clamped to molded chocks provided in the pan depression of the packboard. The inflation reservoir is a composite structure consisting of a seamless aluminum liner reinforced with overlapping Kevlar filaments bonded with epoxy resin.

(b)Valve/regulator
(Ref. Fig. 018)
A valve/regulator assembly is installed on the reservoir, maintaining discharge pressure approximately constant throughout the inflation cycle. A ball-type valve section retains the gas charge, then provides full flow when the valve is opened by tensioning of the inflation cable assembly as the door opens in the emergency mode. Installed in the valve pulley housing are a frangible disc relief device to limit excessive pressure build-up in the storage reservoir and a filler valve for charging the inflation reservoir. For maintenance purposes, the valve is safetied by installation of a lockpin, that prevents the valve pulley from rotating and thereby positively locking the valve. The valve incorporates a direct-reading temperature-compensated gage which indicates the gas charge in the inflation reservoir in relation to ambient temperature. When the inflation reservoir is fully charged, the indicator needle is within the limits of the green 'GO' band. The 'GO' band moves as a function of temperature. The indicator pointer moves as a function of the reservoir pressure.

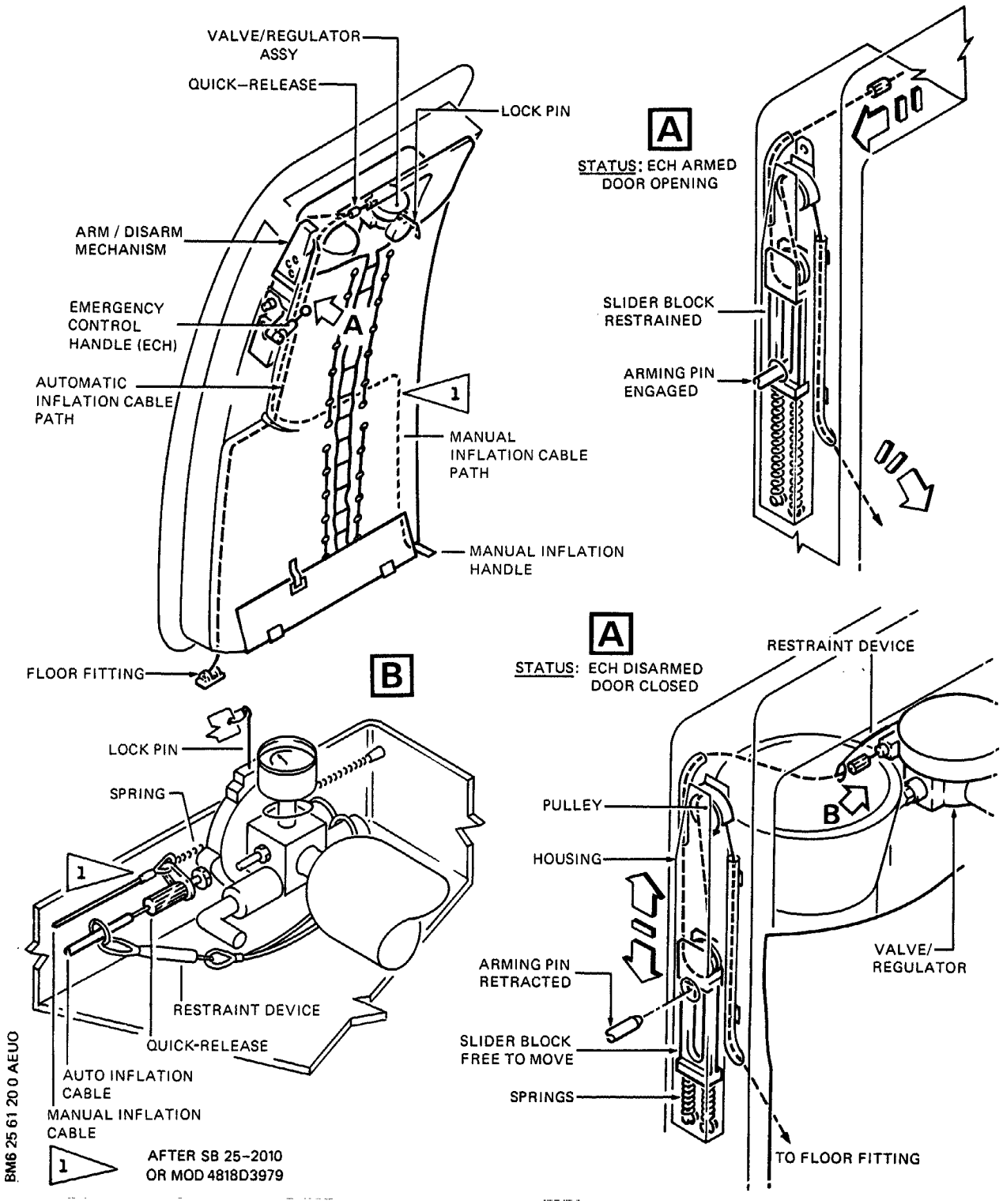
(c)Aspirator
(Ref. Fig. 018)
The aspirator is located outboard on the aft edge of the inflatable ramp section. It comprises an inlet housing section, which contains a nozzle array, and a cylindrical diffuser/mixing tube. The inlet housing is equipped with one-way flappers in the ambient air inlet which act as a check valve. The aspirator functions as a suction device to draw ambient air, by the induction effect, from the expansion of high pressure stored gas through the nozzle array. Thus, inflation time is rapid, and reservoir size is minimized.

(d)Hose Assembly
(Ref. Fig. 018)
A flexible hose assembly interconnects the inflation reservoir with the aspirator. The hose assembly is equipped with swivel end-fittings at the aspirator and valve/regulator, and with a quick-disconnect fitting. A check valve is installed downstream of the quick-disconnect to maintain pressure within the inflatable after hose disconnection at the fitting.

(e)Inflation Actuation Mechanism
(Ref. Fig. 019)
Automatic actuation of the inflation valve is via a single pulley/cable combination. The cable is connected to the valve/regulator assembly by a quick-release fitting, routed through the arm/disarm mechanism and down through the packboard, to exit at the lower aft corner, where it is secured to the aircraft floor fitting.
The arm/disarm mechanism consists of a housing, pulley, slider-block and springs. Movement of the slider-block within the housing




Inflation System Components
Figure 018




Inflation Actuation Mechanism
Figure 019

allows for play in the cable when the door is opened with the Emergency Control Handle (ECH) in the DISARMED position. With the ECH in the ARMED position, the arming pin restricts movement of the sliderblock, so that as the door is opened, cable tension is transmitted direct to the valve/regulator.

(f) Manual Inflation Assembly
(Ref. Fig. 019)
A manual inflation handle assembly serves as a backup system should the slide not inflate automatically upon exit door opening. The handle is constructed of red webbing and secured with Velcro to the lacing cover end flap. The pull handle is positioned so that it is exposed only with the door open. The manual inflation cable is routed through a tube assembly to bypass the inflation actuation mechanism and attaches directly to the valve/regulator assembly. This, together with the posi tioning of the handle, allows for inflation of the slide regardless of the ECH position when the door is open.

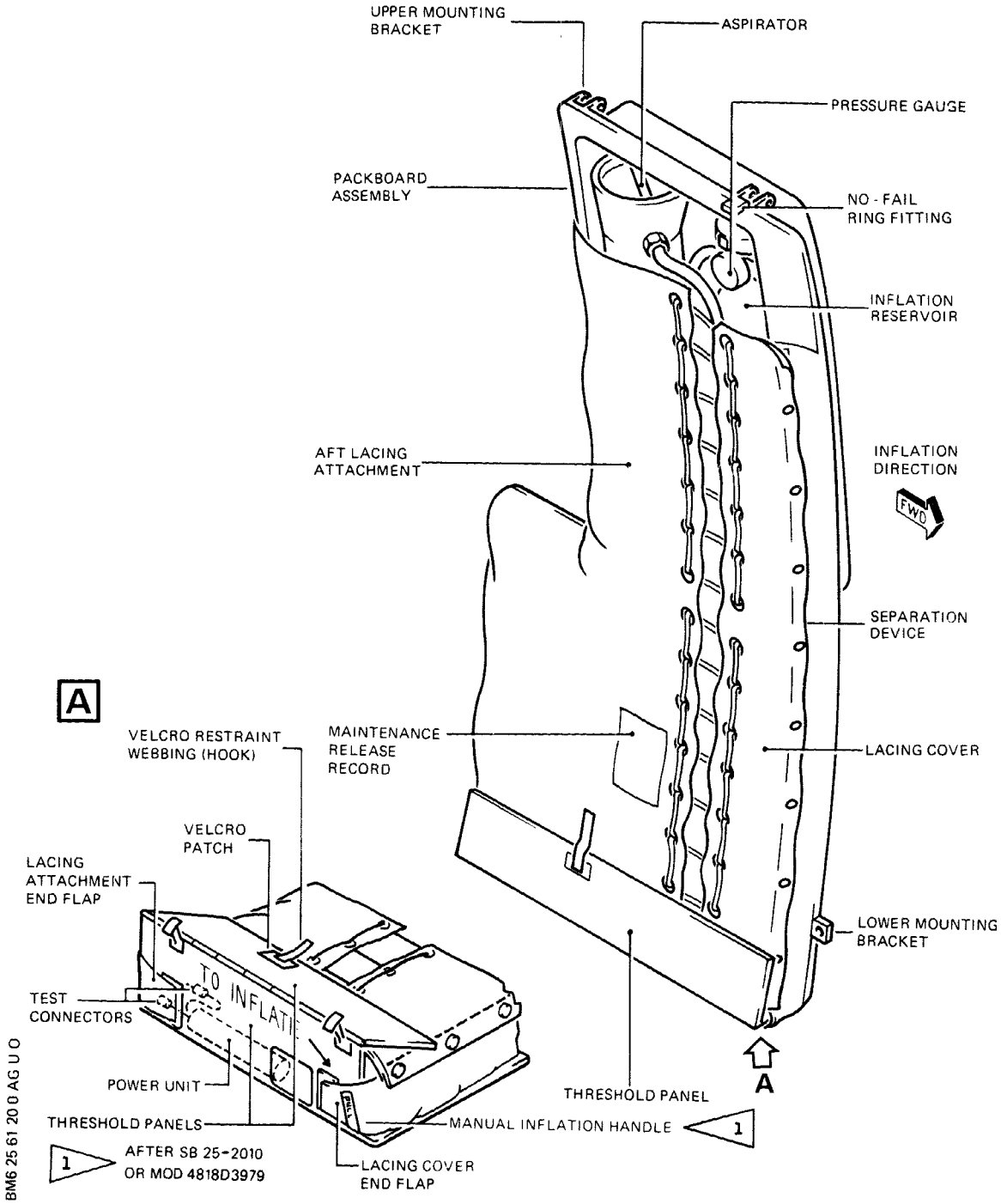
(3) Packboard Assembly
(Ref. Fig. 020)

(a) The packboard is of composite construction and serves several functions as follows:
- attaches the system to the aircraft door structure through use of mounting brackets.
- packboard assembly, in conjunction with its lacing cover, provides structural support and retains the folded inflatable and inflation reservoir.
- serves as the initial walk surface for evacuees stepping out of the overwing exit.

(b) The lacing attachment flap and lacing cover assemblies are constructed of yellow urethane-coated nylon fabric and are attached to the forward and aft packboard edges. A lacing cover separation device, located on forward lacing cover half, permits the lacing cover to be freed from the packboard to enable the inflatable to deploy. The separation device runs the full length of the lacing cover forward side and consists of snaps and Velcro fasteners.

(c) The inflatable is attached to the packboard at forward and aft girts by a series of interlocking nylon cord loops (daisy chain). This series of cord loops is retained by a parachute pin installed through the center cord loop, which is breakaway tied. A pull handle/cable attached to the parachute pin, permits the pin to be withdrawn, allowing for girt separation. Each girt separation cable assembly/cord loop arrangement is located under a protective flap and combined to provide an expedient means of detaching the inflated overwing slide from the aircraft (e.g. to facilitate removal after deployment, for repack or for use as a floatation device after ditching).

(d) A spring-loaded, hinged, composite threshold panel is attached to the bottom edge of the packboard. This panel assembly serves as a ramp to minimize evacuees tripping when transiting from the aircraft floor level to the higher packboard level. End flaps of the lacing cover are provided with Velcro fasteners to secure the folded threshold panel to the lacing cover.




Overwing Escape Slide (Packed)
Figure 020

C. Operation - Deployment Sequence
(Ref. Fig. 021)

(1)Activation

With the door Emergency Control Handle (ECH) placed in the **ARMED** position, the door-mounted arming pin engages the slide packboard arm/disarm mechanism and therefore restricts movement of the slider block.
With the inflation cable anchored to the aircraft floor, outward movement of the door tensions the cable to pull open the valve/regulator assembly, allowing the stored gas within the reservoir to be discharged.

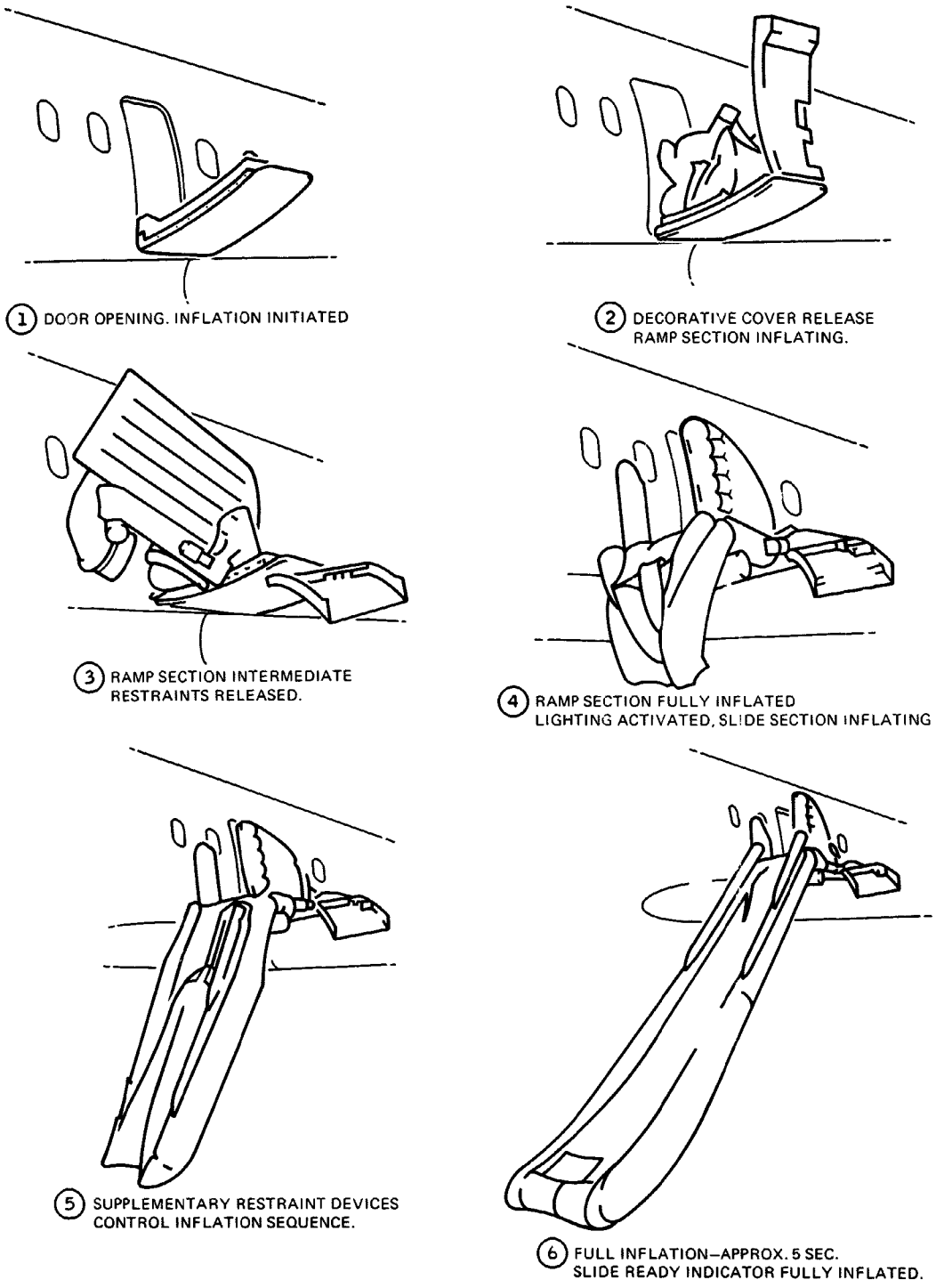
(2)Inflation

As the stored gas is expanded through the nozzle in the aspirator, a partial vacuum is created within the mixing tube section, which in turn inducts ambient air into the aspirator inlet housing. The mixture of ambient air/stored gas charge then flows through the aspirator diffuser section into the inflatable. As the inflatable expands, the lacing cover is forced open. Immediately subsequent to initiation of inflation, the slide decorative cover is released from the bottom restraints and the ramp section distends upward, rotating the cover outboard. The ramp section is then propelled forward, over the wing leading edge, by means of an intermediate restraint connected between the forward girt and first fold of the ramp. Simultaneous with ramp distension, the power unit activating lanyard is pulled free, thus activating the lighting system.
After ramp deployment, the slide distends to a folded, restrained configuration. After separation of a second intermediate restraint, the slide unit fully extends and rounds out to useable pressure at the time of ground contact in less than five seconds.
When gas pressure in the inflatable rises, back-flow of the gas mixture is initiated (i.e. the aspirator stalls). This condition causes the flappers to close and the remaining stored gas charge 'tops off' the inflatable automatically to its operating pressure. The relief valve in the slide section prevents overpressurization.

D. Emergency Operation

(1)Manual Inflation

A pull handle, mounted on the right-hand side of the lower threshold panel, operates the inflation system manually if the automatic inflation is not initiated.


1 DOOR OPENING. INFLATION INITIATED
2 DECORATIVE COVER RELEASE
RAMP SECTION INFLATING.
3 RAMP SECTION INTERMEDIATE
RESTRAINTS RELEASED.
4 RAMP SECTION FULLY INFLATED
LIGHTING ACTIVATED, SLIDE SECTION INFLATING
5 SUPPLEMENTARY RESTRAINT DEVICES
CONTROL INFLATION SEQUENCE.
6 FULL INFLATION–APPROX. 5 SEC.
SLIDE READY INDICATOR FULLY INFLATED.

BM6 25 61 20 0 AJUO

Deployment Sequence
Figure 021

## 1. SLIDE/RAFTS AND ESCAPE SLIDES ATTACHMENT

WARNING : POSITION TERMINOLOGY OF THE EMERGENCY CONTROL HANDLE (ECH) IS STANDARDIZED AS ARMED/DISARMED. THE FOLLOWING TABLE RELATES THE STANDARD TERMINOLOGY TO THAT WHICH MAY BE PLACARDED:

| ARMED | DISARMED |
|---|---|
| AUTOMATIC FLIGHT | MANUAL PARK |

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE CARRYING OUT MAINTENANCE ON OR NEAR PASSENGER/CREW DOORS (REF. 52-10-00, P. BLOCK 301).

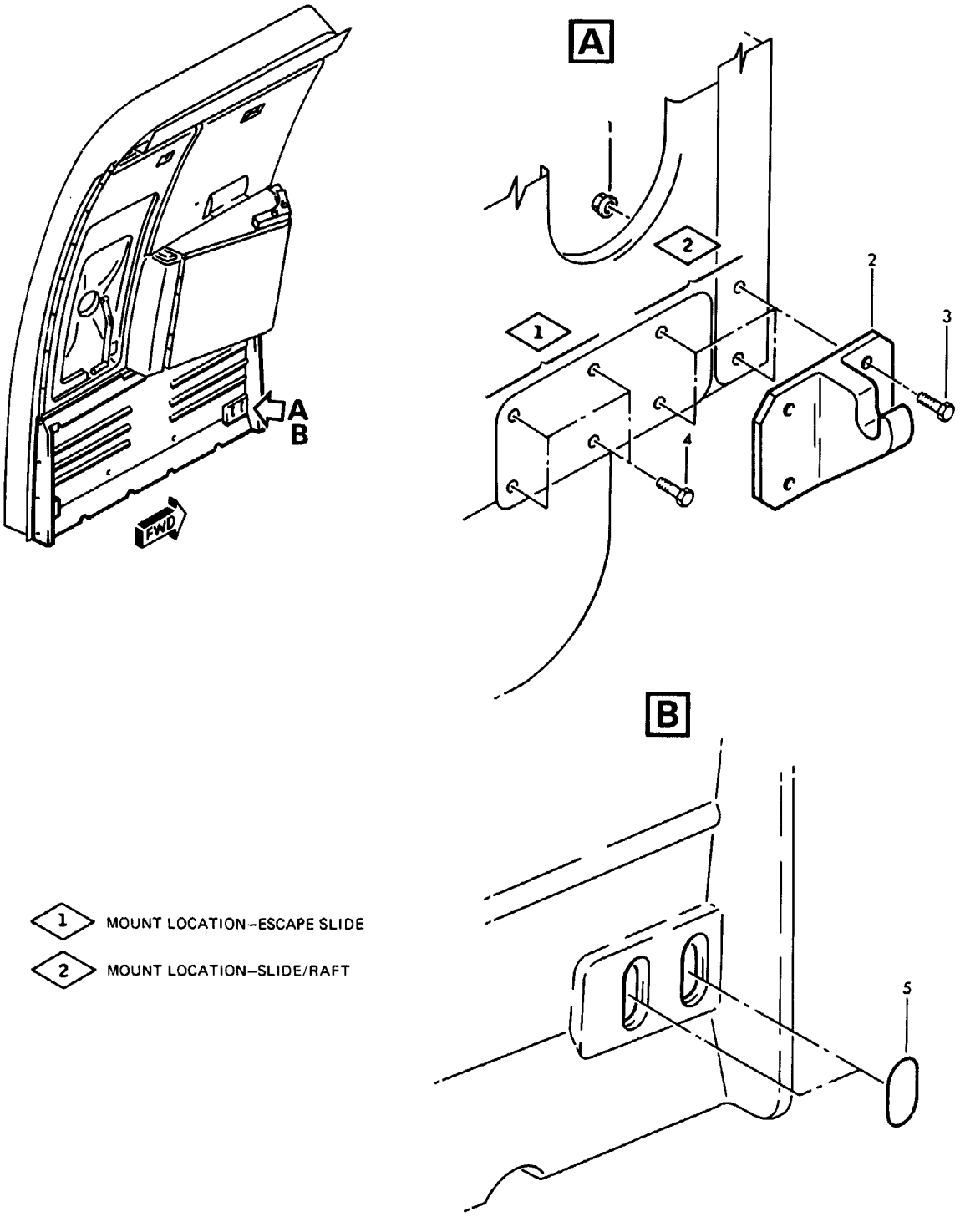
R CAUTION : MAKE CERTAIN THAT GIRT BAR IS CORRECTLY POSITIONED WITH LOCK PLATES
R FACING UPWARDS.

R A. Reason for the Job
R (1)Exchange of slide/rafts and escape slides.

R B. Equipment and Material

| ITEM | DESIGNATION |
|---|---|
| R (1) Material No. 04-004 | Common Greases (Ref. 20-31-00) |
| R (2) Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| R (3) Material No. 16-021 | Structure Paints (Ref. 20-31-00) |
| R (4) | Torque Wrench, up to 0.4 m.daN (35.4 lbf.in.) |
| Referenced Procedures | |
| - 25-61-21, P. Block 401 | Dual Escape Slide |
| - 25-61-22, P. Block 401 | Slide/Raft |
| - 52-10-00, P. Block 301 | Passenger/Crew Doors - Special Precautions |
| - 52-10-11, P. Block 501 | FWD, AFT Passenger/Crew Doors |
| - 52-10-13, P. Block 401 | FWD, AFT Door Lining and Insulation |

R C. Procedure
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE CARRYING OUT MAINTENANCE ON OR NEAR PASSENGER/CREW DOORS (REF. 52-10-00, P. BLOCK 301).
R (1)Remove escape slide (Ref. 25-61-21, P. Block 401) or slide/raft (25-61-22, P. Block 401), as necessary.
R (2)Remove lower door lining frame panel (Ref. 52-10-13, P. Block 401).
R (3)Reposition forward mounting support.
(Ref. Fig. 201)
NOTE : The forward mounting support on each door is installed in the rear location for installation of escape slide units and in the forward location for installation of the wider slide/raft units.
R (a)Remove nuts (1), bolts (3) and mounting support (2).
R (b)Remove nuts (1) and bolts (4).




Door Alterations
Figure 201

(c)Coat shank of bolts (3, 4) with corrosion-preventive paste (Mat. No. 05-002).
(d)Install bolts (4) and nuts (1) in new location as shown for either escape slide or slide/raft.
(e)Position mounting support (2) in new location as shown for either escape slide or slide/raft and install bolts (3) and nuts (1).
(f)On AFT doors, TORQUE nuts (1) to 0.2 m.daN (17.7 lbf.in.).
(g)Coat protruding threaded ends of bolts (3, 4) with corrosion-preventive paste (Mat. No. 05-002).

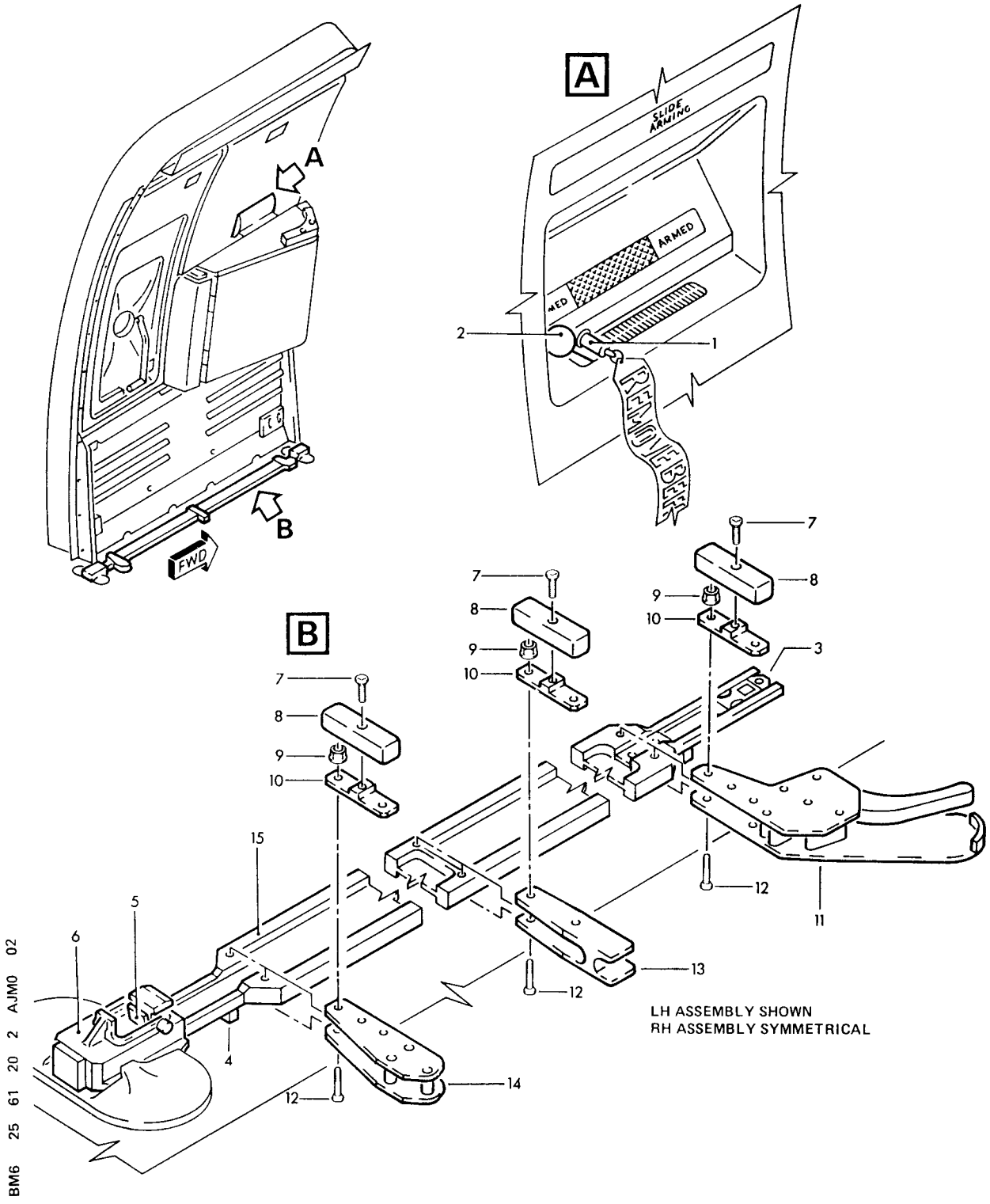
(4)Adjust compensation mechanism for weight of escape slide or slide/raft, as necessary (Ref. 52-10-11, P. Block 501).
(5)Prepare girt bar.
(Ref. Fig. 202)

** FOR SLIDE/RAFT INSTALLATION

(a)Apply grease (Mat. No. 04-004) to moving parts of latch mechanism (11) as required.
CAUTION : MAKE CERTAIN THAT GIRT BAR IS CORRECTLY POSITIONED WITH LOCK PLATES (3) FACING UPWARDS.
(b)Position latch mechanism (11) at forward-end of girt bar.
(c)Install latch mechanism (11) and stirrups (13, 14) with screws (12), plates (10) and nuts (9).
(d)Coat head and exposed threads of screws (12) together with nuts (9) using flexible polyurethane (Mat. No. 16-021).
(e)Install covers (8) with screws (7).
(f)Coat head of screws (7) using flexible polyurethane (Mat. No. 16-021).
(g)Release pawls (5) and position sliders (6) to contact stops (4).
(h)Position girt bar assembly (15) and secure to floor fittings with sliders (6).
(j)With ECH (2) in ARMED position, close and lock door.
(k)Place ECH (2) in DISARMED position and install its safety pin (1).
(Ref. Fig. 201)

(6)Install lower door lining panel (Ref. 52-10-13, P. Block 401).
NOTE : Plug (5) in door panel mounting support opening must be relocated.
(7)Install either escape slide (Ref. 25-61-21, P. Block 401) or slide/raft (Ref. 25-61-22, P. Block 401), as necessary.
(8)Close-Up
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(a)Arm emergency operating cylinder and activate door warning system (Ref. 52-10-00, P. Block 301).
(b)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.

2. Power Unit
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE CARRYING OUT MAINTENANCE ON OR NEAR DOORS (REF. 52-10-00, P. BLOCK 301 AND 52-23-00, P. BLOCK 301).
CAUTION : DO NOT CONNECT POWER UNIT AND LAMP HARNESS CONNECTORS BEFORE INSTALLING AND SAFETYING SWITCH PIN TO SLEEVE, OR ELSE POWER UNIT WILL DISCHARGE.




Girt Bar Preparation
Figure 202

R

A. Reasons for the Job
(1)Replacement of power unit

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1)D17961-101 | Pin - Escape Slide or Slide/Raft Transport Locking |
| (2)C17937-105 | Pin - Escape Slide Transport Locking Emergency Exit |
| (3) | Thread, Breakaway-tie, Size E Nylon (local purchase) |

Referenced Procedures

| | |
|---|---|
| - 25-61-20, P. Block 501 | Passenger Compartment Escape Facilities |
| - 52-10-00, P. Block 301 | Passenger/Crew Doors - Special Precautions |
| - 52-23-00, P. Block 301 | Emergency Exit - Special Precautions |
| - 52-23-13, P. Block 401 | Lining and Insulation |

C. Procedure
(1)Job Set-Up
WARNING: SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(a)Safety emergency control handle, emergency operating cylinder and door warning system as required (Ref. 52-10-00, P. Block 301 and 52-23-00, P. Block 301).

** ON PASSENGER/CREW DOORS

(b)Make certain that door is closed and locked. Release latches and remove decorative cover (Ref. 52-23-13, P. Block 401).
(c)Install locking pin P/N D17961-101 in valve/regulator assembly.
(d)Locate test connector and carefully pull cable free of power unit pouch.
NOTE : Test connector is accessible on all units from left side.

** ON EMERGENCY EXIT DOORS

(e)Make certain that ECH is in DISARMED position and secured with safety pin.
(f)Remove door handle cover assembly and open exit.
(g)Release snap fasteners and raise escape slide decorative cover.
(h)Install locking pin P/N C17937-105 in valve/regulator assembly.
(j)Release Velcro strips and lower packboard threshold panels exposing power unit and test connectors.
(k)Carefully pull test connector free of power unit pouch.

** ON EACH DOOR IN TURN

(l)Check connection of power unit and lamp harness leads and that power unit switch pin is properly seated in power unit receptacle.

NOTE : Make certain that rechargeable batteries in test unit have sufficient charge, otherwise this may cause false low-current indication during lamp harness test.

(2)Replace power unit
(a)Disconnect test connector from test unit, if connected.
(b)Disconnect electrical connectors between power unit and lamp harnesses.
NOTE : Retain lamp harness connectors in position with rubber band provided.
(c)Cut and remove breakaway-tie thread and remove lanyard switch pin from power unit.
NOTE : Retain lanyard switch pin to be used on replacement power unit. Do not remove lanyard from slide-end attachment.

** ON OVERWING SLIDES

(d)Untie white cord securing power unit to pouch.

** ON DUAL ESCAPE SLIDE AND/OR SLIDE/RAFT

(e)Remove and discard old power unit.
(f)Record date of manufacture (DATE MFG) of replacement power unit.
(g)Remove lanyard switch pin from replacement power unit, install power unit, cable-end first, in pouch, and secure pouch flap making certain that sleeve on power unit is installed through hole in flap.

** ON OVERWING SLIDES

(h)Pass white cords attached to power unit cable-end through holes in pouch. Securely tie cords together using two square knots.

** ON EACH SLIDE AND/OR SLIDE/RAFT IN TURN

CAUTION : DO NOT CONNECT POWER UNIT AND LAMP HARNESSES ELECTRICAL CONNECTORS BEFORE INSTALLING LANYARD SWITCH PIN INTO POWER UNIT.
(j)Install retained lanyard switch pin into power unit on/off switch receptacle. Safety tie pin to sleeve using nylon thread secured with two square knots.
(k)Connect power unit and lamp harnesses electrical connectors, and secure with rubber band provided.
(l)Install power unit four-pin test connector in POWER UNIT AND LAMP TEST receptacle of test unit (Ref. 25-61-20, P. Block 501).
(m)Carry out test again (Ref. 25-61-20, P. Block 501).
(3)Close-Up
(a)Disconnect test connector and repack cable in power unit pouch.
(b)Record date of test on service record, as required.

** ON OVERWING ESCAPE SLIDE

(c)Position packboard threshold panels and secure with Velcro strips.
(d)Remove locking pin P/N C17937-105.
(e)Position decorative cover and secure snap fasteners (Ref. 52-23-13,

P. Block 401).
(f)Close door and install door handle cover assembly.

** ON DUAL ESCAPE SLIDE AND/OR SLIDE/RAFTS

(g)Remove locking pin P/N D17961-101.
(h)Install decorative cover.

** ON ALL DOORS

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(j)Arm emergency operating cylinder and activate door warning system (Ref. 52-10-00, P. Block 301) and carry out 'After Maintenance' procedure (Ref. 52-23-00, P. Block 301).
(k)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.

1. Operational Test of Escape Slide and/or Slide/Raft Inflation

WARNING : MAKE SURE THAT SLIDE DEPLOYMENT IMPACT AREA IS CLEAR OF PERSONNEL AND EQUIPMENT. REMOVE ALL ITEMS THAT MAY PUNCTURE OR DAMAGE INFLATABLE.

WARNING : ON PASSENGER/CREW DOORS, DOOR DAMPER AND EMERGENCY OPERATION CYLINDER PERCUSSION MECHANISM DIAPHRAGM MUST BE REPLACED AND GAS CYLINDER CHARGED AFTER EMERGENCY OPERATION.

WARNING : POSITION TERMINOLOGY OF THE EMERGENCY CONTROL HANDLE (ECH) IS STANDARDIZED AS ARMED/DISARMED. THE FOLLOWING TABLE RELATES THE STANDARD TERMINOLOGY TO THAT WHICH MAY BE PLACARDED:

| ARMED | DISARMED |
|---|---|
| AUTOMATIC | MANUAL |
| FLIGHT | PARK |

R WARNING : IF THE ESCAPE SLIDE DOES NOT INFLATE AUTOMATICALLY, MAKE SURE THAT:
R - NO PERSONS OR EQUIPMENT ARE IN THE SLIDE DEPLOYMENT AREA, AND
R - THE DOOR IS IN ITS FULLY OPEN AND LOCKED POSITION, AND
R - THE SLIDE IS FULLY RELEASED OUTSIDE THE CABIN (DOOR-MOUNTED SYSTEMS ONLY),
R THEN PULL THE MANUAL HANDLE TO INFLATE THE SLIDE.

CAUTION : ESCAPE SLIDES AND/OR SLIDE RAFT DEPLOYMENT CAN DAMAGE FUSELAGE BELOW THE DOORSILL AND WING SURFACE. THIS AREA SHOULD BE COVERED BY A PROTECTIVE MAT. IT SHOULD BE TAPED CAREFULLY TO AVOID INTERFERENCE.

NOTE : To ensure deactivation of the emergency locator transmitter and to turn off the emergency lights on the slide/raft, insert the pin, which is attached to a lanyard adjacent to each battery pack, into the switch hole located at the end of each battery pack.

NOTE : We recommend that you do the operational test in the maintenance hangar.

A. Reason for the Job
(1)Air carrier and/or government requirements

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1)Material No. 05-069 | Special Materials (Ref. 20-31-00) |
| (2)Material No. 05-082 | Special Materials (Ref. 20-31-00) |
| (3)Material No. 05-109 | Special Materials (Ref: 20-31-00) |
| (4) | Access Platform 5 m (16 ft.) - Adjustable |
| (5)No specific | Plastic Sheet |
| (6) | Stop-Watch |
| (7) | Video Camera (Optional) |

Referenced Procedures

- 11-32-52, P. Block 1 Placards and Markings - Doors
- 25-61-20, P. Block 601 Passenger Compartment Escape Facilities
- 25-61-22, P. Block 401 Slide/Raft
- 25-61-23, P. Block 401 Overwing Escape Slide
- 52-10-14, P. Block 301 Door Damper and Emergency Operating Cylinder
- 52-23-00, P. Block 301 Emergency Exit - Special Precautions
- 52-23-13, P. Block 401 Lining and Insulation

C. Procedure

(1)Job Set-Up

(a)On all doors, make sure that emergency control handle (ECH) is in **DISARMED** position and that safety pin is installed.

(b)On emergency exits, carry out 'Before Maintenance' procedure (Ref. 52-23-00, P. Block 301).
On passenger/crew doors, carry out 'Before Maintenance' procedure (Ref. 52-10-00, P. Block 301).

(c)Check that pressure gage at nitrogen bottle of door damper indicates pressure shown on the placard (Ref. 11-32-52, P. Block 1).
If necessary, charge nitrogen bottle (Ref. 52-10-14, P. Block 301).
NOTE : The placard is located on the top of the support arm, or on the door frame lining in front of the support arm.

(d)Record the pressure value shown on the gage at the nitrogen bottle of the door damper and the current ambient temperature.
NOTE : This data could be useful for investigation purposes after deployment of escape slides and/or slide rafts.

(e)On emergency exits:
- remove decorative cover (Ref. 52-23-13, P. Block 401) and secure loose electrical components to door structure above interior control handle.

On all other doors:
- if equipped with **GOODRICH** slides, release latches and remove decorative cover
- if equipped with **AIR CRUISER** slides, do not remove decorative cover.

(f)Carry out inspection/check of escape slides and/or slide/rafts (as applicable) (Ref. 25-61-20, P. Block 601).

(g)Apply protective material to fuselage:
(Ref. Fig. 501)
NOTE : The protection is made of two separate layers:
- The outer layer is a laminate of fiberglass-reinforced polyester (Mat. No. 05-109), which has a minimum thickness of 1.2 mm (0.06 in.).
- The inner layer is polyethylene foam (Mat. No. 05-082) or equivalent to **ABS 5088**, which has a minimum thickness of 10.0 mm (0.39 in.).

The outer layer has a hard smooth surface which cannot catch parts of the packboard, as the packboard falls during deployment. The surface is also impact resistant and applies the load equally.
The inner layer absorbs the load.

1 Put the access platform in a position to enable you to attach the protection.

CAUTION : MAKE SURE THAT THE PROTECTION IS CORRECTLY ATTACHED WITH MASKING TAPE TO THE AIRCRAFT STRUCTURE.
THIS PREVENTS THE SUCTION OF LOOSE PROTECTION MATERIAL INTO THE ASPIRATOR DURING THE DEPLOYMENT TEST.
LOOSE PROTECTION MATERIAL CAN CAUSE DAMAGE TO THE ASPIRATOR WITH THE RISK THAT THE DEPLOYMENT TEST WILL NOT BE SATISFACTORY.

2 Refer to the figure for the dimensions and position of the protection.
3 Attach the self-adhesive foam sheets (Mat. No. 05-082) to the polyester laminate sheets (Mat. No. 05-109).
4 Use tape (Mat. No. 05-069) to attach the polyester laminate sheets (Mat. No. 05-109) to each other and to the surface of the fuselage below the door sill.
5 Make sure that there are no gaps between the edges of the sheets.
6 Make sure that the self-adhesive foam sheet touches the fuselage.

(h)Apply protective material to the wing:
(Ref. Fig. 501)

NOTE : The protection is a lamination of fiberglass-reinforced polyester (Mat. No. 05-109) which has a minimum thickness of 1.2 mm (0.06 in.). It is thin, resistant and applies the load equally to prevent damage to the wing.

1 Put the access platform in a position to enable you to attach the protection.

CAUTION : MAKE SURE THAT THE PROTECTION IS CORRECTLY ATTACHED WITH TAPE TO THE AIRCRAFT STRUCTURE.
THIS PREVENTS THE SUCTION OF LOOSE MATERIAL INTO THE ASPIRATION DURING DEPLOYMENT.
LOOSE MATERIAL CAN CAUSE DAMAGE TO THE ASPIRATOR.

2 Refer to the figure for the dimensions and position of the protection.
3 Use tape (Mat. No. 05-069) to attach the polyester laminate sheets (Mat. No. 05-109) to the upper surface of the wing.

(j)Put a plastic sheet in position where the escape slide/raft hits the ground.

(k)We recommend that two persons outside the aircraft use:
- a video camera (optional), if it is available, to record the deployment sequence.
- and a stop-watch to measure the time of the deployment sequence.

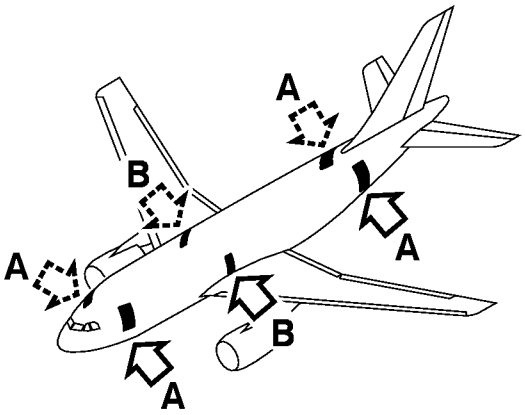
(2)Test

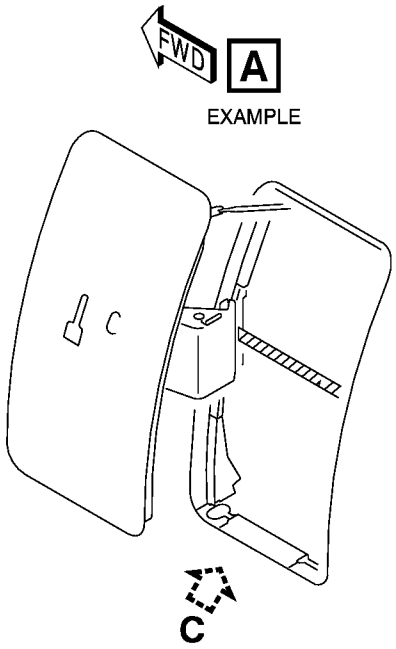
WARNING : MAKE SURE THAT SLIDE DEPLOYMENT IMPACT AREA IS CLEAN AND CLEAR OF PERSONNEL AND EQUIPMENT.

| ACTION | RESULT |
|---|---|
| ** ON PASSENGER/CREW DOORS | |
| 1. Remove safety pin and place ECH in ARMED position. | - Door-mounted slide release mechanism is armed.<br>- Door emergency operation cylinder is armed. |
| 2. Start the video camera to record the deployment sequence.<br>NOTE : Do not use the auto focus function. | |
| 3. Measure the time of the deployment sequence as follows:<br>(a)Start the stop-watch as the door starts to move up in the door cut-out.<br>(b)Stop the stop-watch when the escape-slide/slide raft is fully extended and is below the horizonal position. The escape-slide/slide raft then continues to lower to the ground.<br>NOTE : In usual test conditions (hangar) the complete sequence should not take more than 16 seconds. | |
| 4. Lift door interior control handle to OPEN position and release handle. | - Door opens (emergency operation cylinder activated).<br>- Slide is deployed automatically.<br>- Slide lighting system comes on automatically. |
| 5. Stop the video camera.<br>NOTE : If necessary, use the video tape to make an analysis of the deployment sequence. | |
| 6. Make a note of the time of the deployment sequence.<br>NOTE : Keep the note with the deployed escape-slide/slide raft after it is removed for restoration. | |
| ** ON EMERGENCY EXIT DOORS | |

| ACTION | RESULT |
|---|---|
| 1. Remove safety pin and place ECH in ARMED position. | - Door-mounted slide release mechanism is armed. |
| 2. Lift door interior control handle to OPEN position and forcefully push door outwards. | - Slide is deployed automatically.<br>- Slide lighting system comes on automatically. |

(3)Close-Up
(a)Remove inflated units and install repacked escape slides (Ref. 25-61-23, P. Block 401) or slide/rafts (Ref. 25-61-22, P. Block 401), as applicable.
WARNING : DOOR DAMPER AND EMERGENCY OPERATION CYLINDER MUST BE SERVICED AFTER EMERGENCY OPERATION.
(b)On passenger/crew doors, replace percussion mechanism diaphragm and charge gas cylinder (Ref. 52-10-14, P. Block 301).
(c)If removed, install decorative cover (Ref. 52-23-13, P. Block 401).
(d)Remove the protective material from the fuselage and the wing surface.
(e)Carry out 'After Maintenance' procedure (Ref. 52-23-00, P. Block 301).
(f)Make sure that working area is clean, and clear of tools and miscellaneous items of equipment.

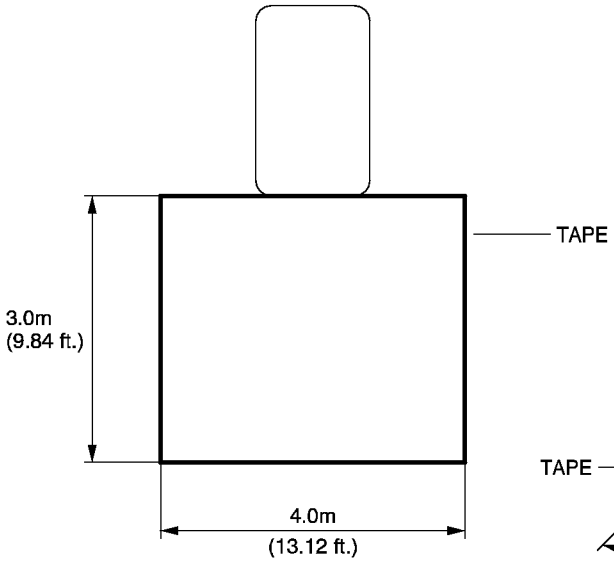



C

PROTECTION DIMENSIONS (APPROXIMATE)

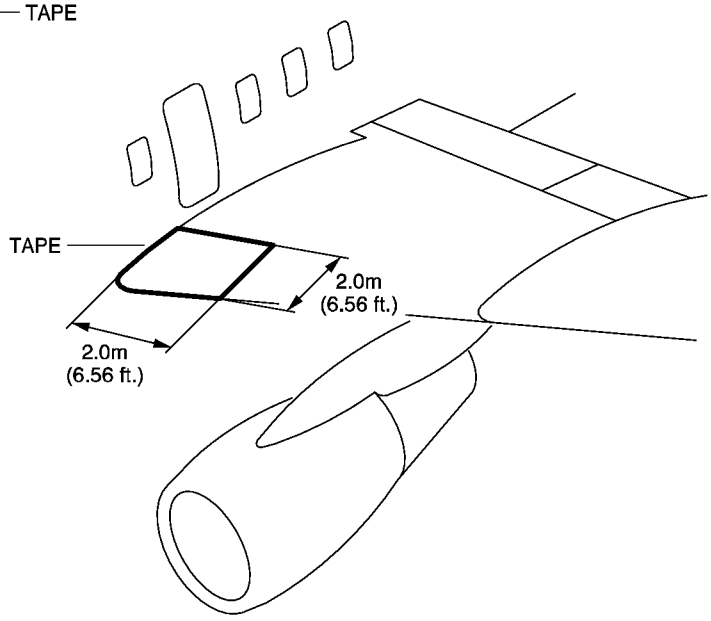
PASSENGER/CREW DOOR




B

PROTECTION DIMENSIONS (APPROXIMATE)

EMERGENCY EXIT DOOR

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Slide/Raft Deployment - Preparation
Figure 501

R

2. Functional Test of Escape Slide and/or Slide/Raft Lighting System

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE CARRYING OUT MAINTENANCE ON OR NEAR DOORS (REF. 52-10-00, P. BLOCK 301 AND 52-23-00, P. BLOCK 301).

CAUTION : DO NOT CONNECT POWER UNIT AND LAMP HARNESS CONNECTORS BEFORE INSTALLING AND SAFETYING SWITCH PIN TO SLEEVE, OR ELSE POWER UNIT WILL DISCHARGE.

A. Reasons for the Job

(1)Scheduled maintenance task

(2)Replacement of power unit or lamps

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1)P7-01-0012-102 | Test Unit - Escape Slide Lighting System |
| (2)P7-01-0012-103 | Test Unit - Escape Slide Lighting System |
| (3)P7-01-0024-000 | Test Unit - Escape Slide Lighting System |
| (4)D17961-101 | Pin - Escape Slide or Slide/Raft Transport Locking |
| (5)C17937-105 | Pin - Escape Slide Transport Locking Emergency Exit |
| (6) | Thread, Breakaway-tie, Size E Nylon (local purchase) |

Referenced Procedures

| | |
|---|---|
| - 25-61-20, P. Block 201 | Passenger Compartment Escape Facilities |
| - 52-10-00, P. Block 301 | Passenger/Crew Doors - Special Precautions |
| - 52-23-00, P. Block 301 | Emergency Exit - Special Precautions |
| - 52-23-13, P. Block 401 | Lining and Insulation |

C. Procedure

(1)Job Set-Up

WARNING: SPECIAL PRECAUTIONS MUST BE FOLLOWED.

(a)Safety emergency control handle, emergency operating cylinder and door warning system as required (Ref. 52-10-00, P. Block 301 and 52-23-00, P. Block 301).

** ON PASSENGER/CREW DOORS

(b)Make certain that door is closed and locked. Release latches and remove decorative cover (Ref. 52-23-13, P. Block 401).

(c)Install locking pin P/N D17961-101 in valve/regulator assembly.

(d)Locate test connector and carefully pull cable free of power unit pouch.

NOTE : Test connector is accessible on all units from left side.

** ON EMERGENCY EXIT DOORS

(e)Make certain that ECH is in DISARMED position and secured with safety pin.
(f)Remove door handle cover assembly and open exit.
(g)Release snap fasteners and raise escape slide decorative cover.
(h)Install locking pin P/N C17937-105 in valve/regulator assembly.
(j)Release Velcro strips and lower packboard threshold panels exposing power unit and test connectors.
(k)Carefully pull test connector free of power unit pouch.

** ON EACH DOOR IN TURN

(l)Check connection of power unit and lamp harness leads and that power unit switch pin is properly seated in power unit receptacle.
NOTE : Make certain that rechargeable batteries in test unit have sufficient charge, otherwise this may cause false low-current indication during lamp harness test.

(2)Perform Test
(a)Functional test with Test Unit TU-12 P/N P7-01-0012-102/103. (Ref. Fig. 502)

| ACTION | RESULT |
|---|---|
| 1. On test unit (to check test unit):<br>NOTE : Do not connect with power unit receptable.<br>- Place LOAD SELECTOR (6) to position B.<br>- Place OFF/ARM switch (4) in ARM position.<br>- Press ACTIVATE pushbutton (5).<br><br>NOTE : If voltmeter readout is dim, erratic, or does not come on, do not proceed with test. Test unit must be checked. | - Digital VOLTMETER (1) comes on and displays +0.00 V DC. |
| 2. On test unit (to test power unit):<br>- Install power unit four-pin test connector in POWER UNIT AND LAMP TEST receptacle of test unit.<br>NOTE : Test connector and receptable are keyed.<br>- Press POWER UNIT PTT pushbutton (2) for 3 - 4 seconds and release. Record end voltage shown on VOLTMETER (1). | - Power unit is serviceable if reading is greater than minimum accept levels:<br>(a) For old type battery, minimum voltage is 10.2 V DC.<br>(b) For new type battery, minimum voltage is 8.7 V DC.<br>NOTE : New type battery installation has a sleeve attached to the four-pin |

| ACTION | RESULT |
|---|---|
| | test connector which states, 'Battery Voltage 8.7 V min'. |
| NOTE : If voltage reading is less than minimum accept level, replace power unit as per Para. 2.C.(3) below. | |
| 3. On test unit: (to test lamp harness)<br>- Press LAMP HARNESS PTT pushbutton (8) until AMMETER (7) reading is stabilized. | - All lamps are operational if recorded reading is between following accept levels:<br>- SLIDE/RAFT 0.795 - 1.001 Amp<br>- OVERWING SLIDE 0.790 - 1.135 Amp |
| - Release pushbutton and record ampere reading.<br>NOTE : If ampere reading is less than the accept level, escape slide must be removed for repair of lamp harnesses. | |
| 4. On test unit:<br>- Place OFF/ARM switch (4) in OFF position. | - Test unit deactivated. |

(b)Functional test with Test Unit TU-14 P/N P7-01-0024-000.
NOTE : TU-14 Test Unit is now accepted as a higher reliability alternative to TU-12 Test Unit.
(Ref. Fig. 503)
(Ref. Fig. 504)

| ACTION | RESULT |
|---|---|
| 1. On test unit (to check test unit):<br>- Connect one end of the TU-14 extension cable with the four pin connectors into receptacle J3 (3) on the TU-14 front panel.<br>NOTE : When connecting/disconnecting extension cables, always grasp the connector body instead of pulling on the cable wire to prevent damage to the connectors/ cables. | |
| 2. On test unit: (to check the condition of the TU-14 internal rechargeable battery)<br>- Press the ON/OFF power switch S1 (4) and release when the ON indicator LED | |

| ACTION | RESULT |
|---|---|
| illuminate. | - Digital VOLTMETER (1) comes on and displays 0.00 V DC (+/-0.01).<br>- Digital AMMETER (2) comes on and displays 0.00 amps (+/-0.003). |
| NOTE : If VOLTMETER (1) or AMMETER (2) readout is dim, erratic, or does not come on, do not proceed with test. Test unit must be checked. | |
| - Press and hold BATTERY TEST switch S2 (6). | - VOLTMETER raeds greater than 12.00 V DC. |
| 3. On test unit: (to test power unit)<br>- Connect the four-pin test connector from the power unit to the four-pin connector on the TU-14 extension cable.<br>- Rotate the LOAD select switch S6 (8) to setting B.<br>- Press and hold the BAS LOAD test switch S5 (7). | - Allowing 3 - 4 seconds for stabilization, compare the VOLTMETER reading with the appropriate MINIMUM LOADED VOLTAGE acceptance parameter.<br>- Power unit is serviceable if reading is greater than minimum accept level:<br>(a) For old type battery, minimum voltage is 10.2 V DC.<br>(b) For new type battery, minimum voltage is 8.7 V DC.<br>NOTE : New type battery installation has a sleeve attached to the four-pin test connector which states, 'Battery Voltage 8.7 V min'. |
| - Release switch S5 (7).<br>NOTE : If voltage reading is less than minimum accept level, replace power unit as per Para. 2.C.(3) below. | |
| 4. On test unit: (to test lamp harness)<br>- Press and hold LAMP HARNESS test switch S4 (5). | - Verify the VOLTMETER (1) reading is 5.00 V DC (+/-0.003).<br>- All lamps are operational if recor- |

| ACTION | RESULT |
|---|---|
| | ded reading is between than following accept levels:<br>- SLIDE/RAFT:<br>0.873 - 1.117 Amp<br>- OVERWING ESCAPE SLIDE:<br>0.873 - 1.117 Amp |
| - Release switch S4 (5) and record ampere reading.<br>NOTE : An AMMETER reading below the accept AMP range indicates a possible broken or burned out lamp in the THS lamp harness. An AMMETER reading higher than the accept AMP range indicates the possible presence of a short circuit. | |
| 5. On test unit:<br>- Place ON/OFF switch S1 (4) in OFF position. | - Test unit deactivated |

(3)Replace power unit, as required (Ref. 25-61-20, P. Block 201).

(4)Close-Up
(a)Disconnect test connector and repack cable in power unit pouch.
(b)Record date of test on service record, as required.

** ON OVERWING ESCAPE SLIDE

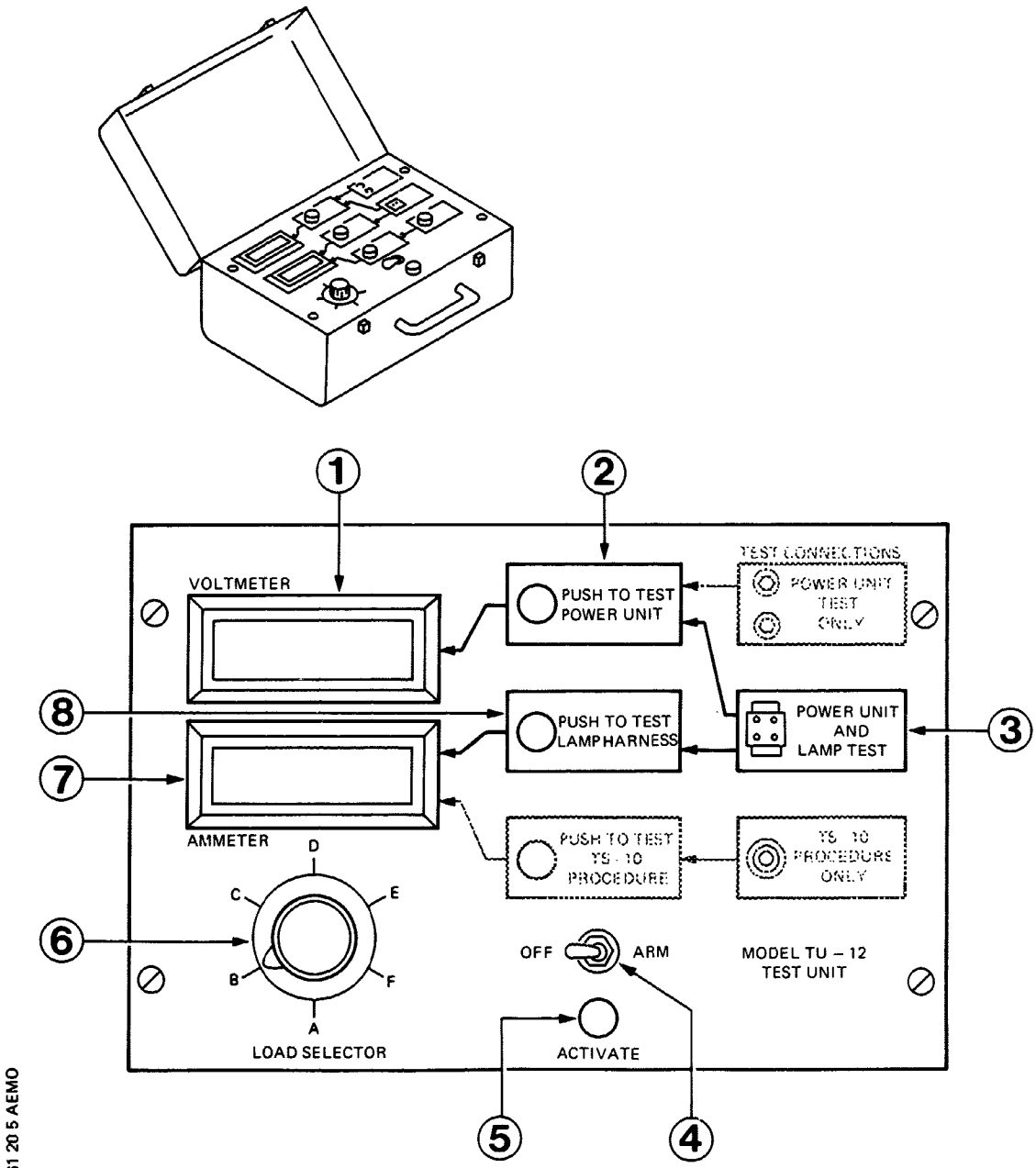
(c)Position packboard threshold panels and secure with Velcro strips.
(d)Remove locking pin P/N C17937-105.
(e)Position decorative cover and secure snap fasteners (Ref. 52-23-13, P. Block 401).
(f)Close door and install door handle cover assembly.

** ON DUAL ESCAPE SLIDE AND/OR SLIDE/RAFTS

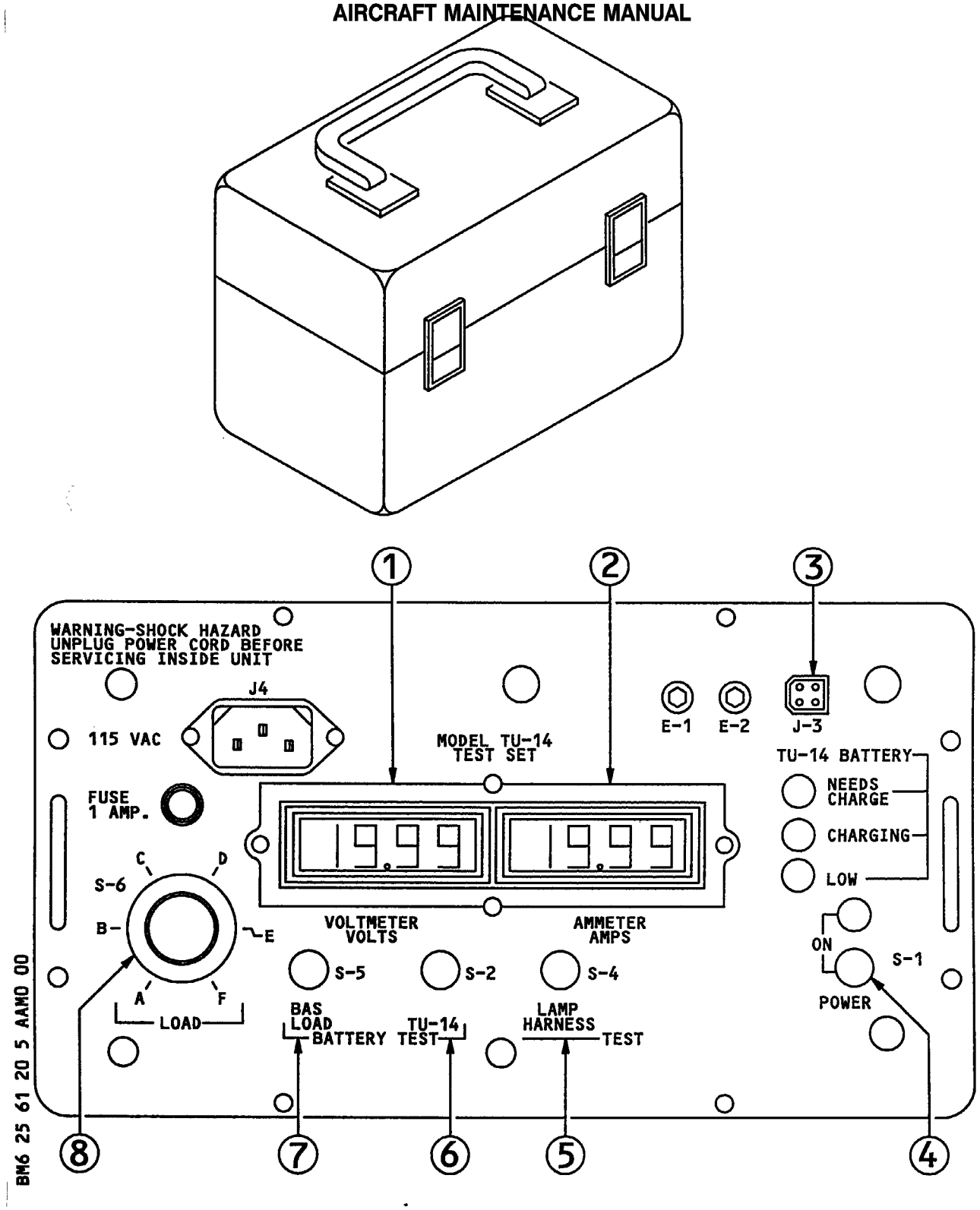
(g)Remove locking pin P/N D17961-101.
(h)Install decorative cover.

** ON ALL DOORS

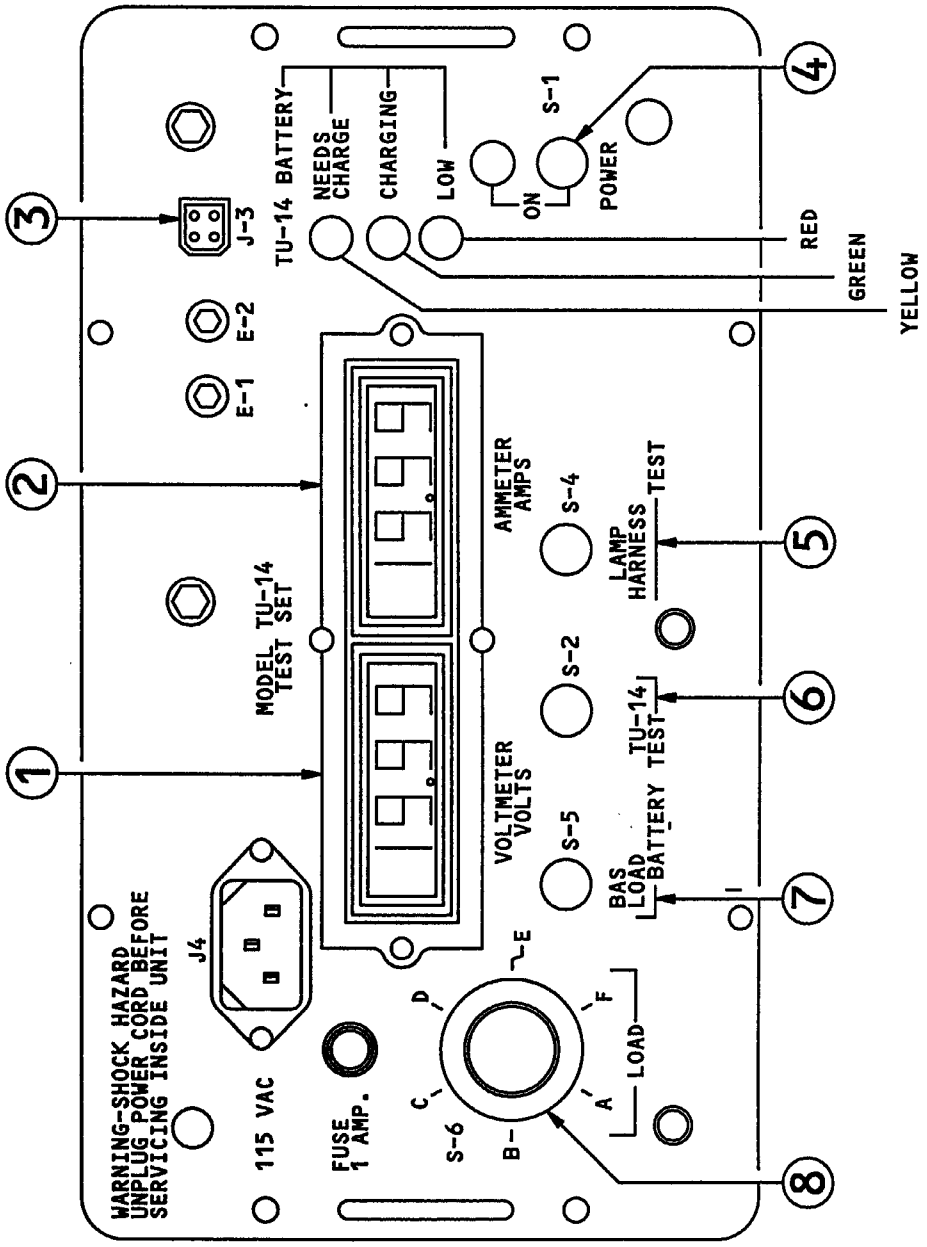
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(j)Arm emergency operating cylinder and activate door warning system (Ref. 52-10-00, P. Block 301) and carry out 'After Maintenance' procedure (Ref. 52-23-00, P. Block 301).
(k)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.




Lighting System Test Unit TU-12
Figure 502




Lighting System Test Unit TU-14
Figure 503

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LED Battery Indicators TU-14
Figure 504

## PASSENGER COMPARTMENT ESCAPE FACILITIES - INSPECTION/CHECK

WARNING : POSITION TERMINOLOGY OF THE EMERGENCY CONTROL HANDLE IS STANDARDIZED AS ARMED/DISARMED. THE FOLLOWING TABLE RELATES THE STANDARD TERMINOLOGY TO THAT WHICH MAY BE PLACADED:

| ARMED | DISARMED |
|---|---|
| AUTOMATIC FLIGHT | MANUAL PARK |

1. Dual Escape Slides and Slide/Raft - General Check

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE CARYING OUT MAINTENANCE ON OR NEAR PASSENGER/CREW DOORS (REF. 52-10-00, P. BLOCK 301).

WARNING : DO NOT OPEN DOOR WITH EMERGENCY CONTROL HANDLE (ECH) PLACED IN ARMED POSITION.

A. Reasons for the Job

(1)Check of inflation reservoir pressure.
(2)Scheduled maintenance inspection requirements.
(3)Checks after maintenance of door components and/or replacement of escape slide or slide/raft.

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1)D17961-101 | Pin - Escape Slide or Slide/Raft Transport Locking |
| Referenced Procedure<br>- 52-10-00, P. Block 301 | Passenger/Crew Doors - Special Precautions |

C. Procedure

(1)Job Set-Up

(a)Make certain that door upon which work is to be performed is closed and locked.

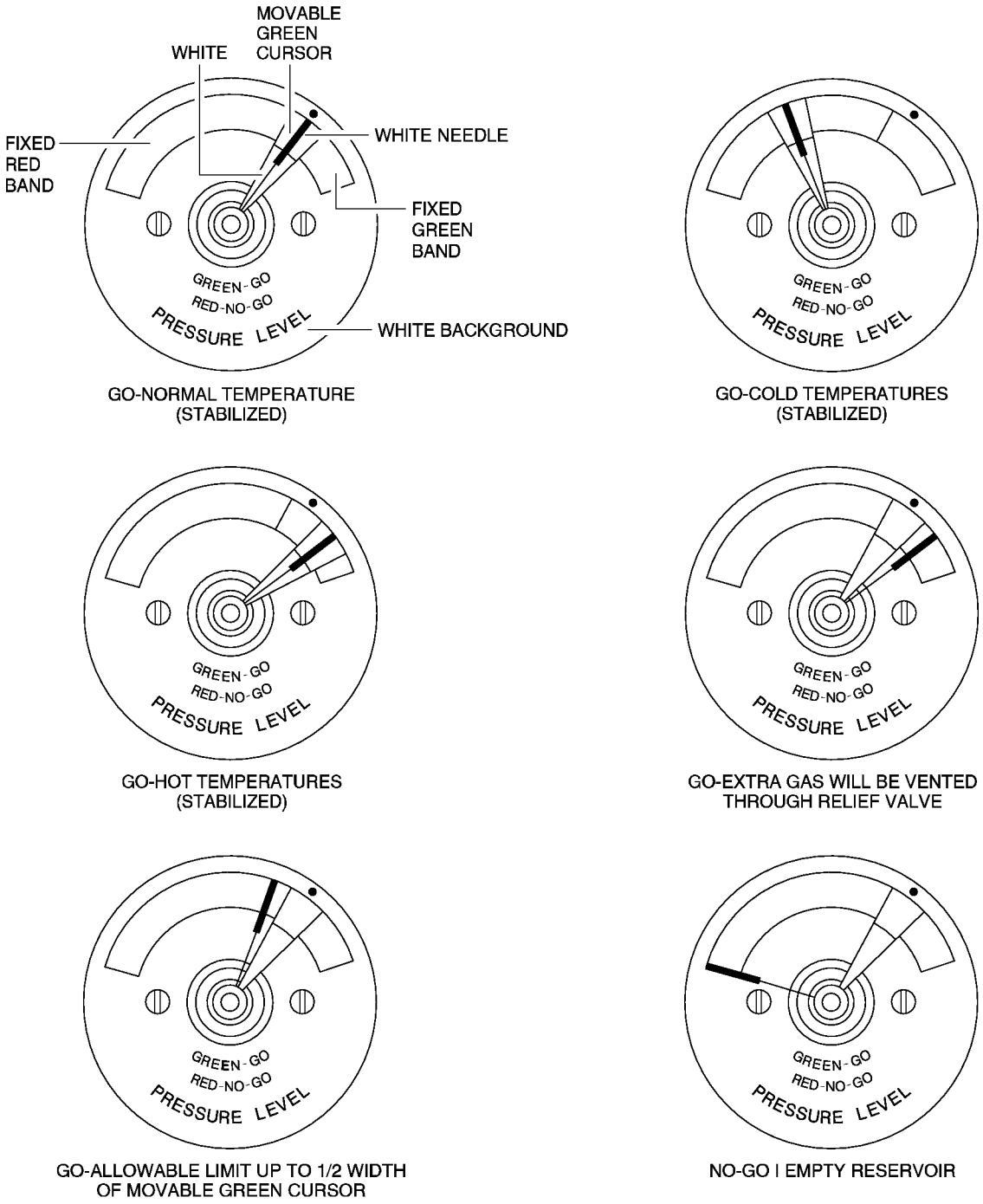
(2)Pressure Check

(Ref. Fig. 601)

(a)Check inflation reservoir pressure gage. White needle must be within
R the limits of green temperature compensated movable cursor, or fixed
R green band, when gage and reservoir are at the same temperature.
R Allowable limits:
R The white needle can stay left of the movable green cursor in the
R fixed red band up to 1/2 width of the movable green cursor.

NOTE : Pressure gage is viewable on top RH side of each escape facility unit.

NOTE : The pressure gage may give transient 'NOGO' indication when

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Pressure Reservoir Indicator
Figure 601

the slide pack assembly is exposed to temperature changes.
R These transient indications occur because the green temperature
R compensated movable cursor reacts to temperature changes faster than the gas expansion or contraction. This can be the case if the pressure check is performed during a short time (around max. 8 hours).

(3)Visual Inspection
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(a)Safety ECH, emergency operation cylinder and door warning system (Ref. 52-10-00, P. Block 301).
(b)Release latches and remove decorative cover.
(c)Install locking pin P/N D17961-101 in valve/regulator assembly.
(d)Without removing any further components, visually inspect each slide according to the following table:

| COMPONENT | PROCEDURE |
|---|---|
| 1 Decorative Cover | - check cover for cracks.<br>- check latches for integrity and ease of operation.<br>- inspect pressure gage viewing window for proper attachment and that window is transparent. |
| 2 Lacing Cover Assembly | - check fabric for rips, tears and stitching for integrity.<br>- check lacing cords for cuts, frays and security of knots. |
| 3 Packboard Assembly | - check decorative cover attach spring clips for integrity.<br>- check for security of attachment to door. |
| 4 Aspirators | - check openings for obstructions. |
| 5 Power Unit | - check switch pin fully inserted in power unit and safety-tie for integrity. |
| 6 Girt Assembly | - check fabric for rips, tears and stitching and bondings for integrity.<br>- check for correct routing of girt.<br>On escape slides:<br>- check girt retaining clips for security of attachment. |
| 7 Lacing Cover Release Mechanism | - check for corrosion and integrity. |

(4)Escape Slide Release Mechanism Check
WARNING : DO NOT OPEN DOOR WITH ECH PLACED IN ARMED POSITION.
(a)Remove safety pin and place ECH in ARMED position.
(b)Make certain that escape slide girt assembly and cables do not interfere with movement of sliders.
(c)Place ECH to ARMED and DISARMED positions several times and check for freedom of movement of ECH and engagement of sliders with floor fittings (ARMED) and linkage guides (DISARMED).
(d)Place ECH in DISARMED position and secure with safety pin.
(e)Press girt bar quick-release lever and check for corrosion and ease of

operation of release mechanism and quick-change girt bar.
(f)Install quick-change girt bar making certain that forward end engages with release mechanism (audible click). Check for security of attachment.
(5)Close-Up
(a)Remove locking pin P/N D17961-101.
(b)Position decorative cover and secure latches.
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(c)Arm emergency operating cylinder and activate door warning system (Ref. 52-10-00, P. Block 301).
(d)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.

2. Overwing Escape Slides - General Check
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE CARYING OUT MAINTENANCE ON OR NEAR EMERGENCY EXITS (REF. 52-23-00, P. BLOCK 301).

A. Reasons for the Job
(1)Check of inflation reservoir pressure.
(2)Scheduled maintenance inspection requirements.
(3)Checks after maintenance of door components and/or replacement of escape slide.

B. Equipment and Materials

| | ITEM | DESIGNATION |
|---|---|---|
| | (1)C17937-105 | Pin - Escape Slide Transport Locking Emergency Exit |
| R | (2)98A52208669000 | Strap - Emergency Exit Doors |
| | (3) | Rubber-based Carpeting or similar soft nonskid material. |

| Referenced Procedure | |
|---|---|
| - 52-23-00, P. Block 301 | Emergency Exit - Special Precautions |

C. Procedure
(1)Job Set-Up
(a)Make sure that door upon which work is to be performed is closed and locked.
(2)Pressure Check
(Ref. Fig. 601)
(a)Check inflation reservoir pressure gage. White needle must be within the limits of green temperature compensated movable cursor, or fixed green band, when gage and reservoir are at the same temperature.
Allowable limits:
The white needle can stay left of the movable green cursor in the fixed red band up to 1/2 width of the movable green cursor.
NOTE : Pressure gage is viewable through window in decorative cover.

NOTE : The pressure gage may give transient 'NOGO' indication when

the slide pack assembly is exposed to temperature changes. These transient indications occur because the green temperature compensated movable cursor reacts to temperature changes faster than the gas expansion or contraction. This can be the case if the pressure check is performed during a short time (around max. 8 hours).

(3)Visual Inspection

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.

(a)Carry out before-maintenance procedure (Ref. 52-23-00, P. Block 301).

(b)Cover wing-walk area from fuselage, outboard to STA207/RIB4 with carpeting or other soft, nonskid material.

(c)Open door, release snap fasteners and raise decorative cover.

(d)Install locking pin P/N C17937-105 in valve/regulator assembly.

(e)Release Velcro fasteners and lower packboard threshold sections.

(f)Without removing any components, visually inspect each slide according to the following table:

| COMPONENT | PROCEDURE |
|---|---|
| 1 Lacing Cover Assembly | - check fabric for rips, tears and stitching for integrity.<br>- check lacing cords for cuts, frays and security of knots.<br>- check that snap and Velcro fasteners are engaged. |
| 2 Packboard Assembly | - check all fittings for attachment and threshold section hinges for proper function.<br>- check for security of attachment to door. |
| 3 Aspirator | - check opening for obstructions. |
| 4 Power Unit | - check harness and test plug connectors for cleanliness, security and broken wires.<br>- check that power unit is securely tied to pouch.<br>- check switch pin fully inserted in power unit and safety-tie for integrity. |
| 5 Inflation Cable | - check cable for fraying and kinks.<br>- check floor fitting for security of attachment.<br>- check cable attach components for attachment and integrity.<br>- check cable exit fitting for wear. |

(g)Fold packboard threshold sections into position and secure with Velcro fasteners.

(4)Escape Slide Release Mechanism Check

R (a)Using assist strap P/N 98A52208669000, and with an assistant on the wing holding the decorative cover, raise the door to the almost closed position and check for smooth return of inflation cable.

(b)With door in almost closed position, remove safety pin and place ECH to ARMED and DISARMED positions several times. Check for freedom

of movement of ECH and arming pin engagement with slide arm/disarm mechanism.

(c)Place ECH in DISARMED position and secure with safety pin.

(d)Open door and remove locking pin P/N C17937-105.

(e)Position decorative cover and secure snap fasteners.

NOTE : Route cover retaining straps so that they will not be caught between door and doorframe.

(f)Close and lock door.

(5)Close-Up

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.

(a)Carry out after-maintenance procedure (Ref. 52-23-00, P. Block 301).

(b)Remove carpeting from wing-walk area.

(c)Make sure that working area is clean, and clear of tools and miscellaneous items of equipment.

WARNING : POSITION TERMINOLOGY OF THE EMERGENCY CONTROL HANDLE (ECH) IS STANDARDIZED AS ARMED/DISARMED. THE FOLLOWING TABLE RELATES THE STANDARD TERMINOLOGY TO THAT WHICH MAY BE PLACADED:

| ARMED | DISARMED |
|---|---|
| AUTOMATIC FLIGHT | MANUAL PARK |

1. Inflated Slide/Raft - Removal

WARNING : AFTER EMERGENCY OPERATION OR INADVERTENT DEPLOYMENT OF SLIDE/RAFT, REPLACE DIAPHRAGM IN PERCUSSION MECHANISM AND SERVICE DOOR EMERGENCY OPERATION CYLINDER (REF. 52-10-14, P. BLOCK 301).

CAUTION : INFLATABLE MAY SPRING AWAY FROM AIRCRAFT DUE TO PRESSURE AGAINST FUSELAGE.

CAUTION : USE CARE WHEN LOWERING INFLATED SLIDE/RAFT TO GROUND TO PREVENT DAMAGING INFLATION CYLINDER.

CAUTION : DO NOT STAND OR WALK ON INFLATABLE.

NOTE : To ensure deactivation of the emergency locator transmitter and to turn off the emergency lights on the slide/raft, insert the pin, which is attached to a lanyard adjacent to each battery pack, into the switch hole located at the end of each battery pack.

A. Reason for the Job

(1)Aircraft recovery after emergency evacuation or test inflation

B. Referenced Procedure

- 52-10-14, P. Block 301 Door Damper and Emergency Operation Cylinder

C. Procedure

(Ref. Fig. 401)

(1)Remove inflatable.

(a)Jerk re-entry tape (2) free and pull onboard until ring (11) on tape end stops at ring (12) on inflatable.

(b)Securely tie ring-end (11) through loop of main restraint (10).

(c)Grasp tape (2) near tied-off end inboard of ring (12) as shown.

(d)Raise flap (9) to reveal girt release HANDLE (8).

CAUTION : INFLATABLE MAY SPRING AWAY FROM AIRCRAFT.

(e)Take up weight of inflatable on tape (2) and pull HANDLE (8) releasing daisy chain.

(f)Slowly release tension on tape.

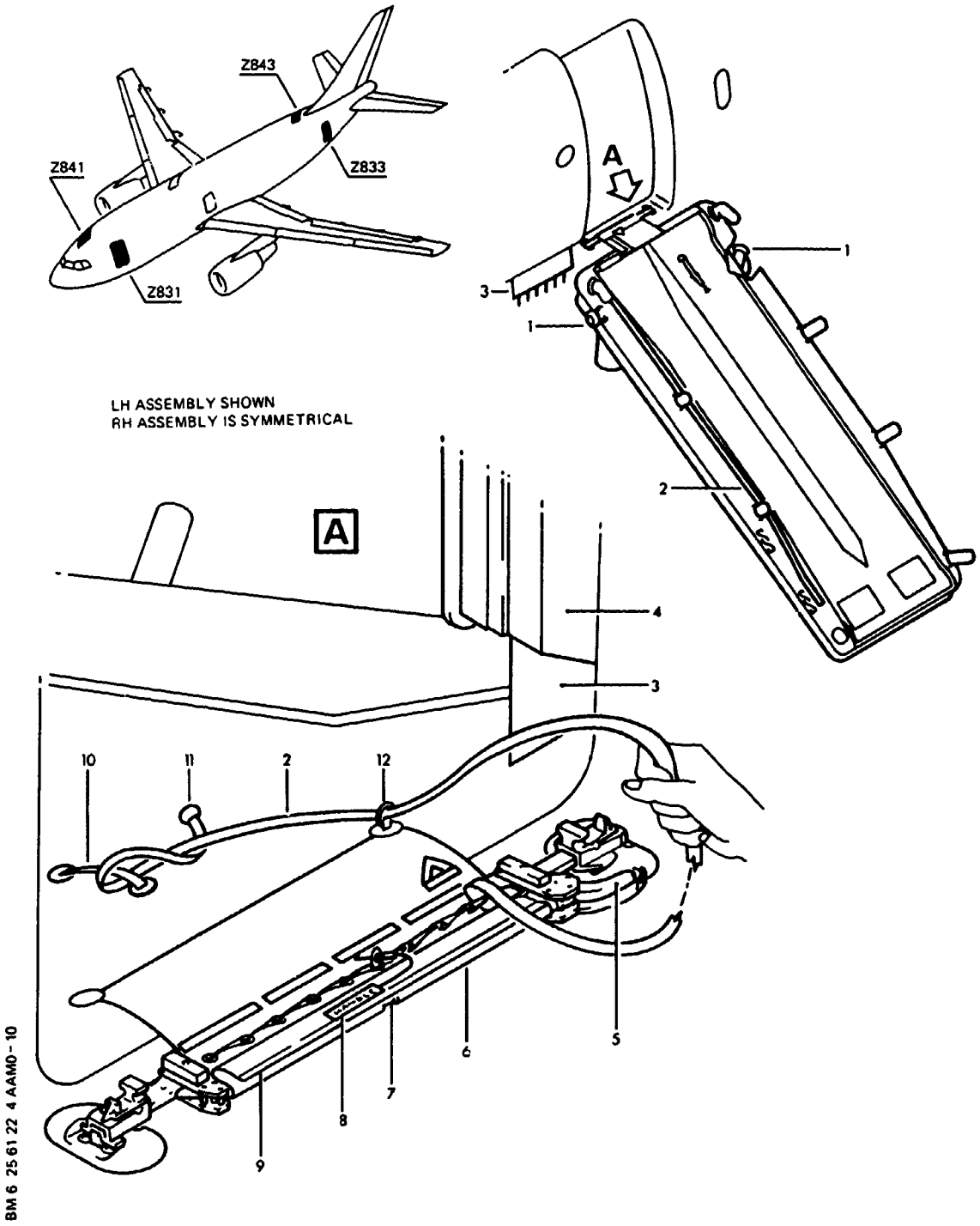
NOTE : When enough tension is transferred to girt daisy chain, separation of girt assembly and girt extension occurs if it did not do so in previous step.

CAUTION : DO NOT ALLOW INFLATABLE TO DROP.

(g)Carefully lower inflatable to ground.

(2)Remove girt extension and close door.

(a)Press release lever (5) and remove quick-change girt bar (7)




Inflated Slide/Raft
Figure 401

with girt extension (6).

(b)Remove girt extension (6) from bar and retain with inflatable.

NOTE : Quick-change girt bar (7) is a component of the girt bar assembly and must remain with the aircraft.

(c)Relieve pressure at door damper and emergency operation cylinder (Ref. 52-10-14, P. Block 301).

(d)Close door.

NOTE : Pull lacing cover (3) inboard to prevent it being trapped between door and sill.

(3)Deflate and temporarily fold inflatable.

(a)Relieve air pressure by pushing open flapper valves of aspirators (1).

NOTE : Aspirators may have flappers which are spring-loaded closed. Some force is required to open them and overcome spring and gas pressure resistance.

(b)Roll up inflatable beginning at runway end.

(4)Close-Up.

(a)Remove decorative cover and packboard (4) from door. Retain packboard with inflatable.

WARNING : REPLACE DIAPHRAGM IN PERCUSSION MECHANISM AND SERVICE DOOR EMERGENCY OPERATION CYLINDER.

(b)Service door damper and emergency operation cylinder (Ref. 52-10-14, P. Block 301).

(c)Return complete slide/raft assembly to authorized servicing facility.

2. Packed Slide/Raft - Removal/Installation

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE CARYING OUT MAINTENANCE ON OR NEAR PASSENGER/CREW DOORS (REF. 52-10-00, P. BLOCK 301).

WARNING : HANDLE SLIDE/RAFT ASSEMBLY WITH EXTREME CARE. COMPRESSED GAS CYLINDERS ARE CHARGED AND ARMED.

WARNING : FORCEFULLY PULLING GIRT WILL ACTIVATE SLIDE/RAFT EJECTION.

WARNING : EACH FWD AND AFT DOOR SLIDE/RAFT ASSEMBLY WEIGHS APPROX. 74 kg (163 lb.).
EACH MID DOOR SLIDE/RAFT ASSEMBLY WEIGHS APPROX. 66 kg (146 lb.).

CAUTION : TRANSPORT LOCKING PIN PREVENTS ACTIVATION OF INFLATION CYLINDER ONLY. EJECTION BAG CYLINDER IS ARMED AT ALL TIMES.

CAUTION : DO NOT ALLOW SLIDE/RAFT ASSEMBLY TO TILT INBOARD AWAY FROM DOOR WHEN ATTACH SCREWS ARE NOT INSTALLED.

A. Reasons for the Job
(1)Replacement of slide/raft
(2)Maintenance of passenger/crew door and mechanisms

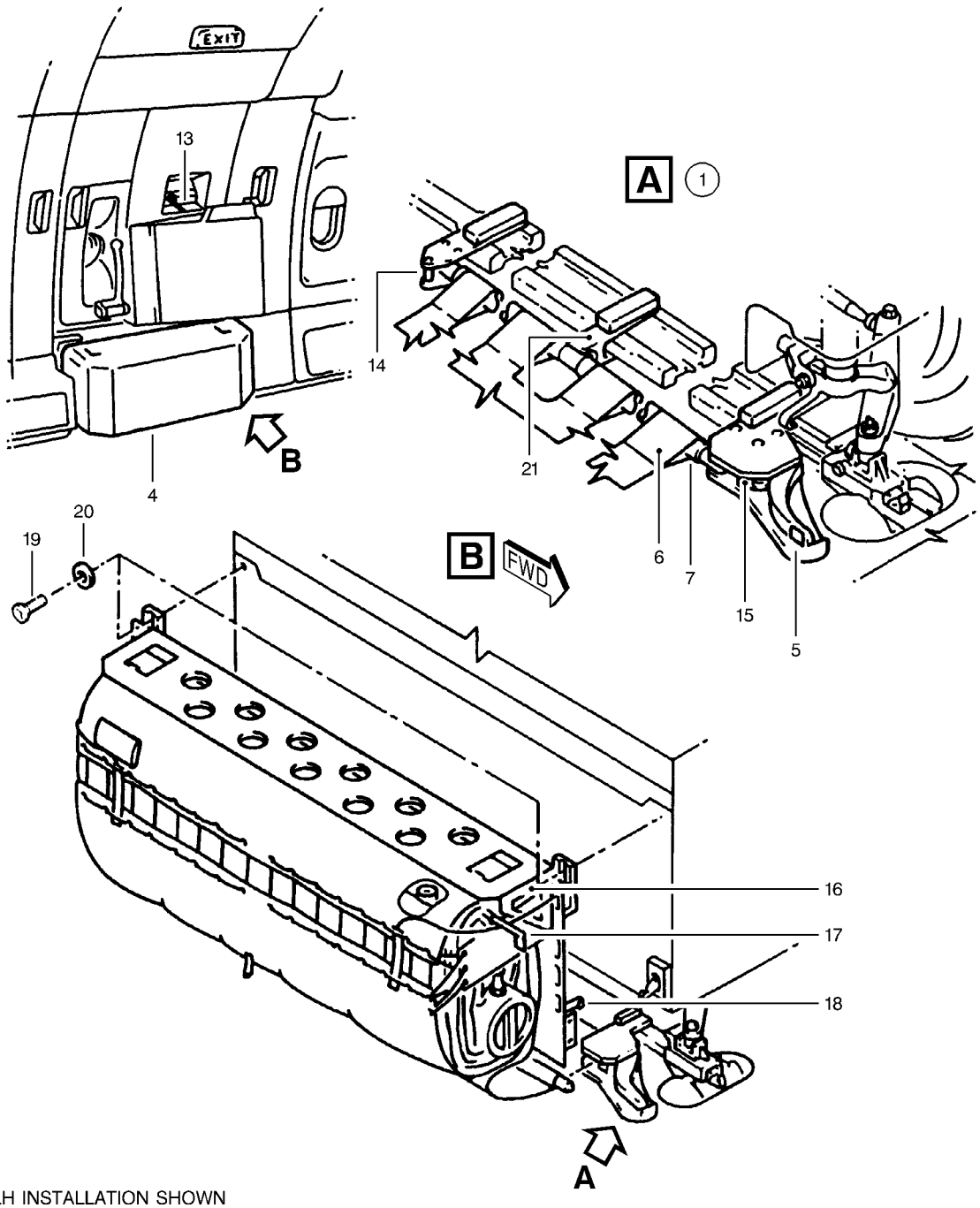
B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1)D17961-101 | Pin - Escape Slide or Slide/Raft Transport Locking |
| (2) | Torque Wrench, up to 1.02 m.daN (90 lbf.in.) |

Referenced Procedures

| | |
|---|---|
| - 25-61-20, P. Block 501 | Passenger Compartment Escape Facilities |
| - 52-10-00, P. Block 301 | Passenger/Crew Doors - Special Precautions |

C. Procedure
(Ref. Fig. 402, 403)
(1)Job Set-Up
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(a)Safety emergency control handle (ECH), emergency operating cylinder and door warning system (Ref. 52-10-00, P. Block 301).
(b)Make sure that door upon which work is to be performed is closed and locked.
(2)Removal
(a)Release latches and remove decorative cover (4).
CAUTION : EJECTION BAG CYLINDER IS ARMED AT ALL TIMES.
(b)Install transport locking pin (17) P/N D17961-101.
(c)Remove safety pin and place ECH (13) in ARMED position.
(d)Press release lever (5) and carefully remove quick-change girt bar (7) with girt extension (6).
(e)Reset release lever (5) and place ECH (13) in DISARMED position. Reinstall safety pin.
CAUTION : DO NOT ALLOW SLIDE/RAFT ASSEMBLY TO TILT INBOARD.
(f)Hold slide/raft assembly securely against door and remove bolts (19) and washers (20).
WARNING : HANDLE SLIDE/RAFT ASSEMBLY WITH EXTREME CARE.
WARNING : EACH SLIDE/RAFT ASSEMBLY WEIGHS BETWEEN 66 AND 74 kg (146 AND 163 lb.).
(g)Grasp packboard at cut-outs (16), lift assembly free of door-mounted supports and remove slide/raft.
WARNING : FORCEFULLY PULLING GIRT WILL ACTIVATE SLIDE/RAFT EJECTION.
(h)Remove quick-change girt bar (7) from girt extension (6).
NOTE : Quick-change girt bar, sliders and girt bar assembly must remain with the aircraft.
(3)Preparation of Replacement Component
(a)Make sure that transport locking pin (17) P/N D17961-101 is installed.
R (b)Check inflation reservoir pressure gage (Ref. 25-61-20, P. Block 601).
(4)Installation
WARNING : FORCEFULLY PULLING GIRT WILL ACTIVATE SLIDE/RAFT EJECTION
(a)Remove safety pin and place ECH (13) in ARMED position.
(b)Press release lever (5) and insert quick-change girt bar into girt extension (6).
WARNING : HANDLE SLIDE/RAFT ASSEMBLY WITH EXTREME CARE.
WARNING : EACH SLIDE/RAFT ASSEMBLY WEIGHS BETWEEN 66 AND 74 kg (146 AND 163 lb.).
CAUTION : DO NOT ALLOW SLIDE/RAFT ASSEMBLY TO TILT INBOARD.
(c)Position and hold slide/raft assembly onto door and make sure that lower attach forks engage with door mounting supports.
(d)Install bolts (19) with washers (20). TORQUE bolts to between 0.9 and 1.02 m.daN (80 and 90 lbf.in.).

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NOTE:

(1) LH INSTALLATION SHOWN
RH INSTALLATION SYMMETRICAL

Packed Slide/Raft
Figure 402

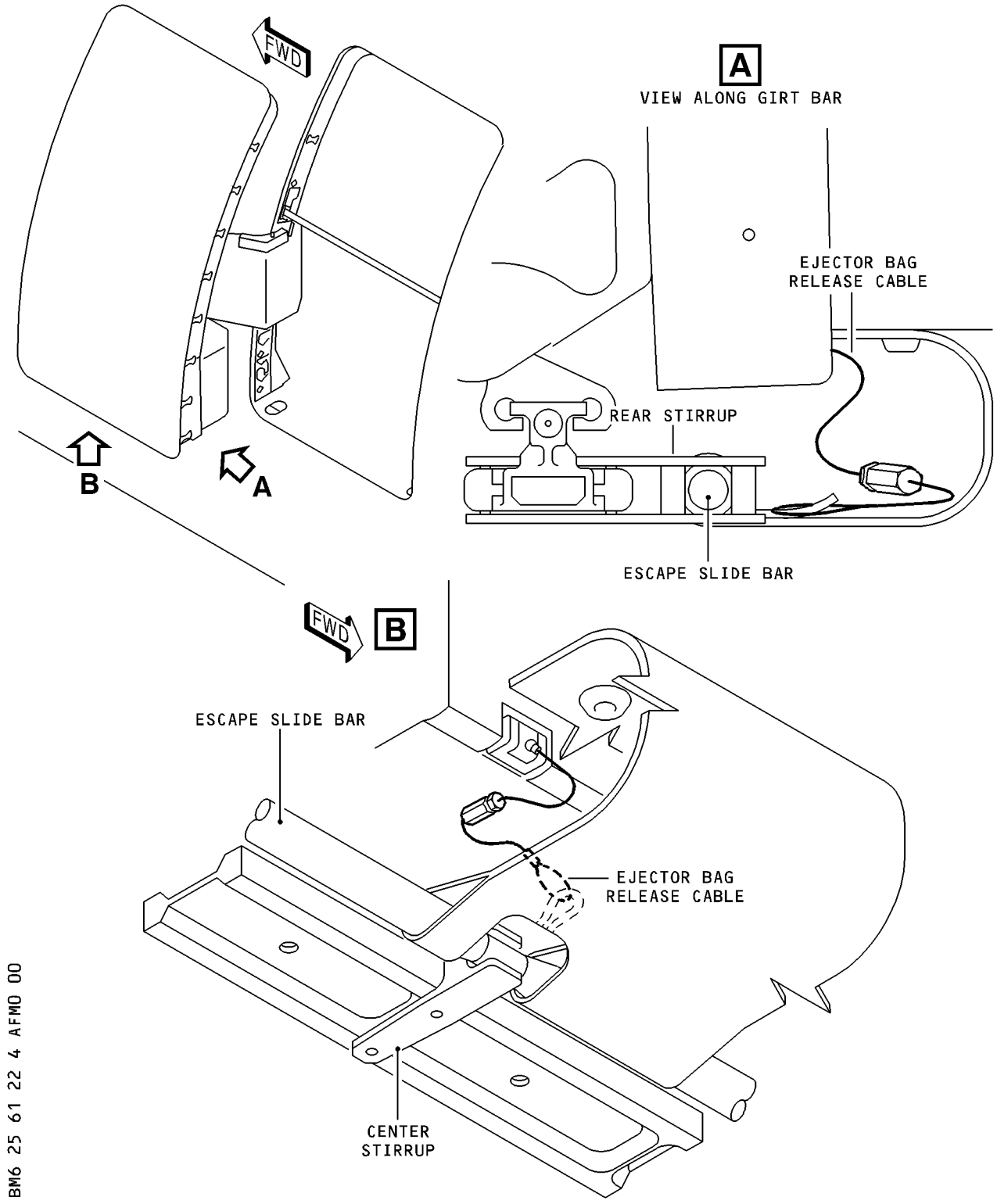
WARNING : FORCEFULLY PULLING GIRT WILL ACTIVATE SLIDE/RAFT EJECTION.
CAUTION : MAKE SURE THE EJECTOR BAG RELEASE CABLE IS NOT JAMMED BETWEEN STIRRUP AND ESCAPE SLIDE BAR (Ref. Fig. 403). THIS IS TO PREVENT BREAKAGE OF THE EJECTOR BAG RELEASE CABLE, WHICH IS NEEDED TO RELEASE THE SLIDE/RAFT.

(e)Carefully insert aft end of quick-change girt bar (7) into stirrup (14) and push forward end of bar into latch (15) until fully engaged (audible click).
(f)Reset release lever (5) and place ECH (13) in DISARMED position.
(g)Make sure that door is closed and that LOCKED indicators are visible.
(h)Remove safety pin and check for correct operation of girt bar assembly by placing ECH (13) in ARMED and DISARMED positions several times.
(j)Make sure that ECH (13) is in DISARMED position and reinstall safety pin.
(k)Open door and check for proper positioning of girt assembly and that the quick-change girt bar is correctly locked.
(l)Make sure that the rigging of the girt extension (6) around the quick-change girt bar (7) is correct.
(m)Make sure that there is no interference between the slide/raft stirrups (14,21) and the girt extension (6).
(n)Pull door closed.

R CAUTION : DO NOT STORE THE TRANSPORT LOCKING PIN ON THE SLIDE/RAFT.
R THIS COULD CAUSE MALFUNCTION AND/OR DAMAGE TO THE SLIDE RAFT
R DURING THE DEPLOYMENT.

(p)Remove transport locking pin (17) P/N D17961-101.
(q)Position decorative cover (4), making sure that cover engages with clips (18) on each side of packboard and then secure cover latches.

(5)Close-Up
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(a)Arm emergency operating cylinder and activate door warning system (Ref. 52-10-00, P. Block 301).
(b)Make sure that working area is clean and clear of tools and miscellaneous items of equipment.




Insertion of Escape Slide Bar
Figure 403

R

WARNING : POSITION TERMINOLOGY OF THE EMERGENCY CONTROL HANDLE (ECH) IS STANDARDIZED AS ARMED/DISARMED. THE FOLLOWING TABLE RELATES THE STANDARD TERMINOLOGY TO THAT WHICH MAY BE PLACARDED:

| ARMED | DISARMED |
|---|---|
| AUTOMATIC FLIGHT | MANUAL PARK |

1. Inflated Slide Removal

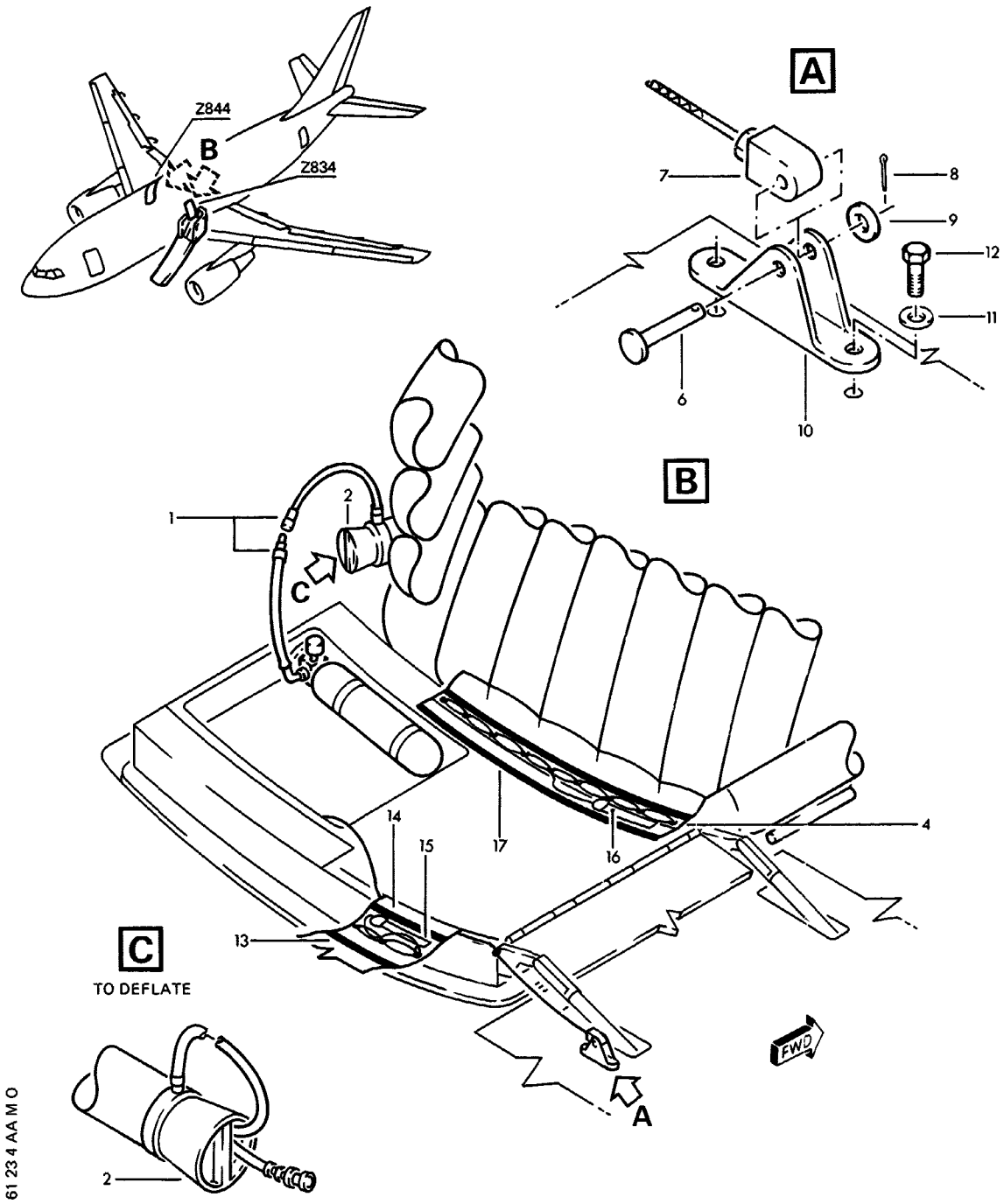
WARNING : USE EXTREME CARE WHEN DISCONNECTING INFLATION HOSE AS SOME PRESSURE REMAINS IN RESERVOIR AND WILL DISCHARGE.
CAUTION : DO NOT INSERT ANY HARD, SHARP-EDGED OBJECTS INTO ASPIRATOR.
CAUTION : TO PREVENT DAMAGING WING, PLACE ASPIRATOR ON INFLATABLE BEFORE LOWERING UNIT TO THE GROUND.
CAUTION : DO NOT STAND OR WALK ON INFLATABLE.

A. Reason for the Job
(1)Aircraft recovery after emergency evacuation or test inflation.

B. Equipment and Materials

| | ITEM | DESIGNATION |
|---|---|---|
| R | (1)98A52208669000 | Strap - Emergency Exit Doors |
| | (2) | Cord or Webbing, approx. length 12 m (40 ft.) |

C. Procedure
(Ref. Fig. 401)
(1)Remove Inflated Slide
WARNING : USE EXTREME CARE WHEN DISCONNECTING INFLATION HOSE.
(a)Release quick-disconnect coupling (1).
CAUTION : DO NOT INSERT ANY HARD, SHARP-EDGED OBJECTS INTO ASPIRATOR.
(b)Push flapper valves of aspirator (2) inward to deflate inflatable.
NOTE : To hold flapper valve open, bend hose and insert kink into aspirator as shown.
(c)Raise flap (17) to reveal forward girt release HANDLE (16).
(d)Pull girt release HANDLE (16) free and separate forward girt (4) from packboard.
(e)Secure cord or webbing to eyelets in forward girt (4).
CAUTION : TO PREVENT DAMAGING WING, PLACE ASPIRATOR ON INFLATABLE.
(f)Place aspirator (2) onto deflated slide.
(g)Raise flap (13) to reveal aft girt release HANDLE (15).
(h)Take up weight of inflatable on cord attached to forward girt (4), pull girt release HANDLE (15) free and separate aft girt (14).
(j)Carefully lower inflatable to ground.
CAUTION : DO NOT STAND OR WALK ON INFLATABLE.
(k)Roll inflatable together beginning at runway tube end.




Inflated Overwing Slide
Figure 401

(l)Remove cotter pin (8), washer (9) and pin (6), and free cable block (7). Discard cotter pin (8).

(m)Remove screws (12), washers (11) and floor fitting (10).

NOTE : Floor fitting with attach parts to cable block are to be retained with slide assembly.

(n)Fold lacing covers and threshold panels onto packboard. Secure panels with Velcro fasteners.

(p)Place ECH in **DISARMED** position.

(q)Remove attach bolts and washers, lift inboard end of packboard, free outboard end from door structure fittings and remove packboard assembly.

(2)Close-Up

(a)Position decorative cover onto door structure and secure snap fasteners to each side.

NOTE: Make sure that the snap fasteners are correctly adjusted (Ref. 52-23-13, P. Block 401).

NOTE : Route decorative cover retaining straps so that they will not be caught between door and door frame.

R (b)Using strap assembly P/N 98A52208669000, close and lock door.

2. Packed Slide Removal/Installation

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED BEFORE CARRYING OUT MAINTENANCE ON OR NEAR EMERGENCY EXITS (REF. 52-23-00, P. Block 301).

WARNING : HANDLE ESCAPE SLIDE ASSEMBLY WITH EXTREME CARE. COMPRESSED GAS CYLINDER IS CHARGED AND ARMED.

WARNING : EACH OVERWING SLIDE ASSEMBLY WEIGHS APPROX. 35 kg (75 lb.).

A. Reasons for the Job

(1)Replacement of overwing slide.

(2)Maintenance of exit door and mechanisms.

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1)C17937-105 | Pin - Escape Slide Transport Locking, Emergency Exit |
| R (2)98A52208669000 | Strap - Emergency Exit Doors |
| (3) | Rubber-based carpeting or similar soft, nonskid, area cover material |
| (4) | Cotter Pin |

Referenced Procedures

| | |
|---|---|
| - 25-61-20, P. Block 501 | Passenger Compartment Escape Facilities |
| - 52-23-00, P. Block 301 | Emergency Exit - Special Precautions |
| - 52-23-13, P. Block 401 | Lining and Insulation |

C. Procedure

(Ref. Fig. 402)

(1)Job Set-Up

WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.

(a)Carry out 'Before Maintenance' procedure (Ref. 52-23-00, P. Block 301).

(b)Cover wing-walk area from fuselage outboard to STA207/RIB4 with carpeting or other soft, nonskid material.

(c)Open door and remove decorative cover (Ref. 52-23-13, P. Block 401).

NOTE : Electrical components must be removed from cover and secured to door structure using adhesive tape.

(d)Install transport locking pin (3) P/N C17937-105.

(2)Removal

(a)Remove cotter pin (8), washer (9) and pin (6), and free cable block (7). Discard cotter pin (8).

(b)Remove screws (12), washers (11) and floor fitting (10).

NOTE : Floor fitting and attaching parts to cable block are to be retained with slide assembly.

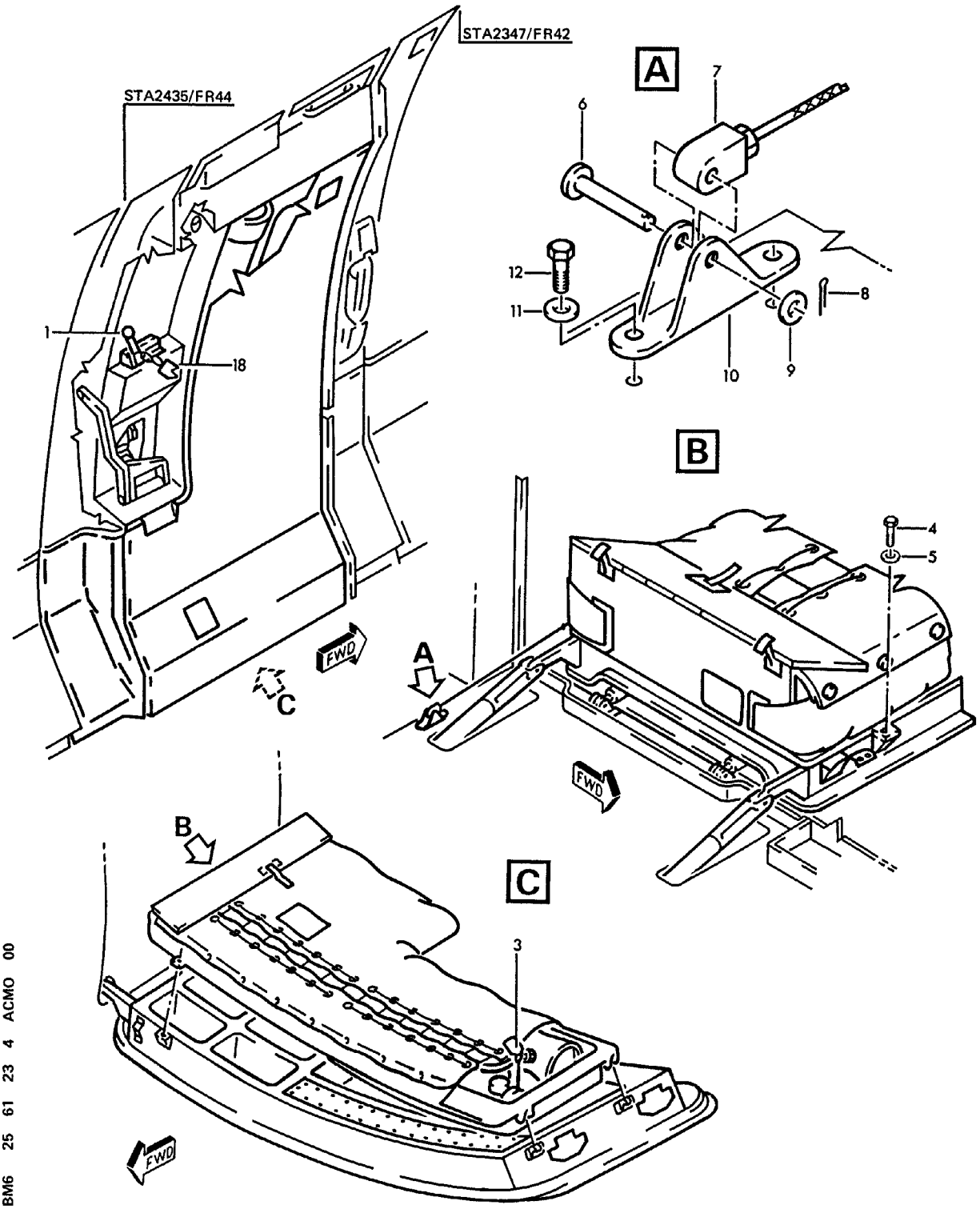
(c)Remove bolts (4) and washers (5).

WARNING : HANDLE SLIDE ASSEMBLY WITH EXTREME CARE. GAS CYLINDER IS CHARGED AND ARMED.

WARNING : OVERWING SLIDE ASSEMBLY WEIGHS 33.6 kg (74.1 lbs.).

(d)Lift inboard end of packboard, free outboard end from door structure fittings and remove slide assembly.

(3)Preparation of Replacement Component

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Packed Overwing Slide
Figure 402

(a)Make sure that transport locking pin (3) P/N C17937-105 is installed.
(b)Check inflation reservoir pressure gage (Ref. 25-61-20, P. Block 601).

(4)Installation
(a)Make sure that exit door upon which work is to be performed is open with decorative cover removed and ECH (1) is in DISARMED position.
WARNING : HANDLE SLIDE ASSEMBLY WITH EXTREME CARE. GAS CYLINDERS ARE CHARGED AND ARMED.
WARNING : OVERWING SLIDE ASSEMBLY WEIGHS APPROX. 35 kg (75 lb.).
(b)Position slide assembly by engaging packboard upper mounting brackets with fittings on door structure and then lower slide assembly onto door.
NOTE : Make sure that pan assembly and arm/disarm mechanism on packboard have adequate clearance with door structure.
(c)Install bolts (4) with washers (5). Do not tighten at this stage.
R (d)Using strap assembly P/N 98A52208669000, close and lock door.
(e)Check for smooth engagement of arming pin by placing ECH (1) in ARMED and DISARMED positions several times.
(f)Make sure that ECH (1) is in DISARMED position and install safety pin (18).
(g)Tighten bolts (4).
(h)Install floor fitting (10) with screws (12) and washers (11).
(j)Position cable block (7) and install pin (6), washer (9) and new cotter pin (8).
(k)Open door and check as door lowers that inflation cable is smoothly drawn out.
(l)Remove transport locking pin (3).
(m)Install decorative cover.
NOTE: Make sure that the snap fasteners are correctly adjusted (Ref. 52-23-13, P. Block 401).
NOTE : Route decorative cover retaining straps so that they will not be caught between door and door frame.
R (n)Using strap assembly P/N 98A52208669000, close and lock door.

(5)Close-Up
WARNING : SPECIAL PRECAUTIONS MUST BE FOLLOWED.
(a)Carry out after-maintenance procedure (Ref. 52-23-00, P. Block 301).
(b)Remove carpeting from wing-walk area.
(c)Make sure that working area is clean and clear of tools and miscellaneous items of equipment.

1. General

Individual inflatable survival equipment for passengers and crew members are stowed in easily accessible positions in the flight and passenger
R compartments. For location of equipment refer to 25-60-00, P. Block 601.

NOTE : For demonstration purposes, nonfunctional life vests are normally carried onboard. To avoid confusion between a normal life vest and a demo life vest, the nonfunctional vests are marked DEMO in large letters.

2. Description and Operation

(Ref. Fig. 001)

A. Life Vest

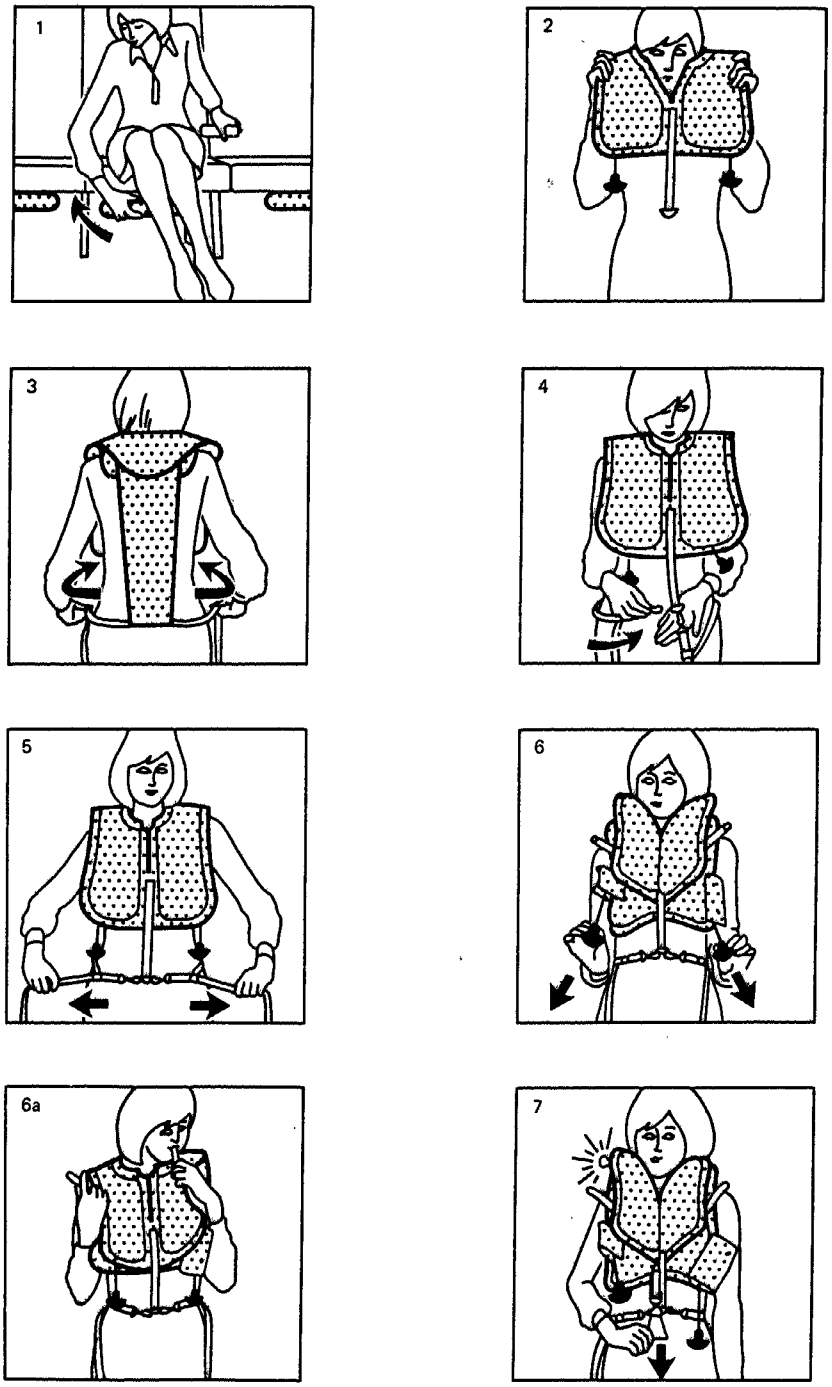
(1) Description

Each life vest consists of one or two buoyancy chambers with straps, attaching clips and adjustable buckles. The vest contains a CO2 inflator, a secondary oral inflator and a battery-powered, water-activated light. The life vests are stowed beneath the passenger seats, in the attendant seats and on each flight compartment seat back.

Additionally, spare life vests and child life vests may be carried. These additional vests are stored in the overhead stowage compartments adjacent to the aircraft entrance or emergency doors.

(2) Operation

Instructions for fitting are printed on each life vest. The CO2 inflators are operated by pulling the 'JERK TO INFLATE' handle. This punctures the CO2 cartridge and inflates the buoyancy chambers. Inflation can also be accomplished through the oral inflator if the primary system fails, or if additional pressure is required.

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Handling of Life Vests
Figure 001

## EVACUATION SIGNALLING EQUIPMENT - DESCRIPTION AND OPERATION

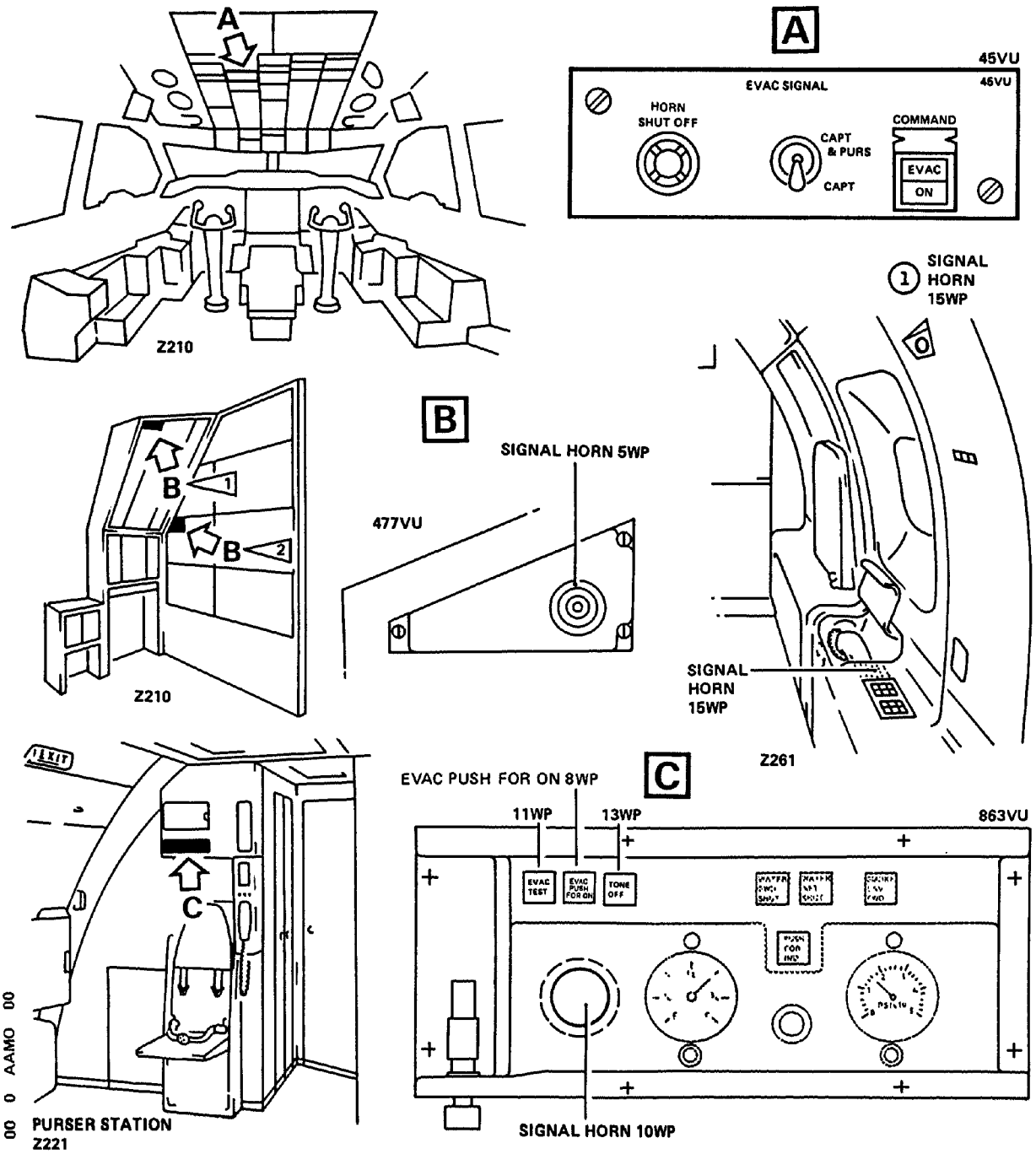
1. General

Emergency evacuation signalling system is operated in the event of aircraft having to be evacuated in an emergency on ground or water. Aural signals in flight and passenger compartments direct crew members during emergency evacuation of passengers.

2. Component Location

(Ref. Fig. 001)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF. |
|---|---|---|---|---|---|
| 2WP | MAIN SWITCH CAPT+PURS/CAPT ONLY | 45VU | 210 | | |
| 3WP | SWITCH-COMMAND | 45VU | 210 | | |
| 4WP | FLASHER UNIT | 45VU | 210 | | |
| 5WP | WARNING HORN | 477VU | 210 | | |
| 6WP | CUT-OFF RELAY | 104VU | 120 | | |
| 7WP | SWITCH-HORN SHUT OFF | 45VU | 210 | | |
| 8WP | SWITCH-EVAC PUSH FOR ON | 863VU | 221 | | |
| 9WP | FLASHER UNIT | 863VU | 221 | | |
| 10WP | WARNING HORN | 863VU | 221 | | |
| 11WP | SWITCH EVAC TEST | 863VU | 221 | | |
| 12WP | CUT-OFF RELAY | 863VU | 221 | | |
| 13WP | SWITCH HORN TONE OFF | 863VU | 221 | | |
| 14WP | FLASHER UNIT | 788VU | 253 | | |
| 15WP | WARNING HORN | | 261 | | |
| 16WP | SWITCH EVAC TEST | 866VU | 261 | | |
| 17WP | CUT-OFF RELAY | 788VU | 253 | | |
| 18WP | SWITCH HORN TONE OFF | 866VU | 261 | | |
| 19WP | PULSE GEN. MODULE | 45VU | 210 | | |
| 20WP | DIODE | 863VU | 221 | | |
| 21WP | DIODE | 788VU | 253 | | |
| 22WP | DIODE | 45VU | 210 | | |
| 23WP | DIODE | 45VU | 210 | | |

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1 477VU, BEFORE MOD. 4803S5726, FLIGHT COMP.MODIFY DESIGN.

2 477VU, AFTER MOD. 4803S5726, FLIGHT COMP.MODIFY DESIGN.

BM6 (1) 15WP SIGNAL HORN , IF LONGITUDINAL GALLEY FITTED.

Controls and Indicators
Figure 001

3. Description
(Ref. Fig. 002)
The System comprises components located as follows:

A. Flight Compartment
(1)EVAC SIGNAL Panel 45VU:
The panel represents a section of the overhead panel and houses the following equipment:
(a)Main switch 2WP, two position, CAPT+PURS/CAPT ONLY.
1 In the CAPT+PURS position, system can be activated by operation of ON segment of COMMAND switch 3WP or pushbutton switch EVAC PUSH FOR ON 8WP, on panel 863VU.
2 In the CAPT ONLY position, system can only be activated by operation of ON segment of COMMAND switch 3WP.
(b)COMMAND switch 3WP two segment switch ON, when operated, actuated system and EVAC, with integral lamp, flashes on system activation.
(c)Flasher Unit 4WP applies ground signal to EVAC segment lamp on COMMAND switch 3WP on activation of system, at predetermined frequency.
(d)HORN SHUT OFF pushbutton switch 7WP, when operated, isolates signal horn 5WP.
(2)Panel 104VU:
(a)Relay 6WP normally open, is energized by operation of HORN SHUT OFF pushbutton switch 7WP.
(3)Panel 477VU:
(a)Warning Horn 5WP is energized on activation of evacuation signalling system.

B. Passenger Compartment
(1)Purser Control Panel 863VU:
The panel is located at Purser station (Zone 221) and houses the following equipment:
(a)EVAC PUSH FOR ON switch 8WP when operated:
1 Activates the evacuation signalling system when main switch 2WP is in CAPT+PURS position.
(b)EVAC TEST 11WP flashes when system is activated. Lamp is push-to-test type.
(c)Flasher Unit 9WP supplies ground signal to EVAC lamp 11WP at predetermined frequency.
(d)Warning Horn 10WP energized on activation of evacuation signalling system.
(e)Cut-off Relay 12WP, normally open, energized on activation of evacuation signalling system to isolate escape slide release warning system (Ref. 52-73-00).
(2)Attendant Station (Zone 261)
The station is located aft of LH aft cabin door and houses the following equipment.
(a)Warning Horn 15WP energized on activation of evacuation signalling system.

4. Operation

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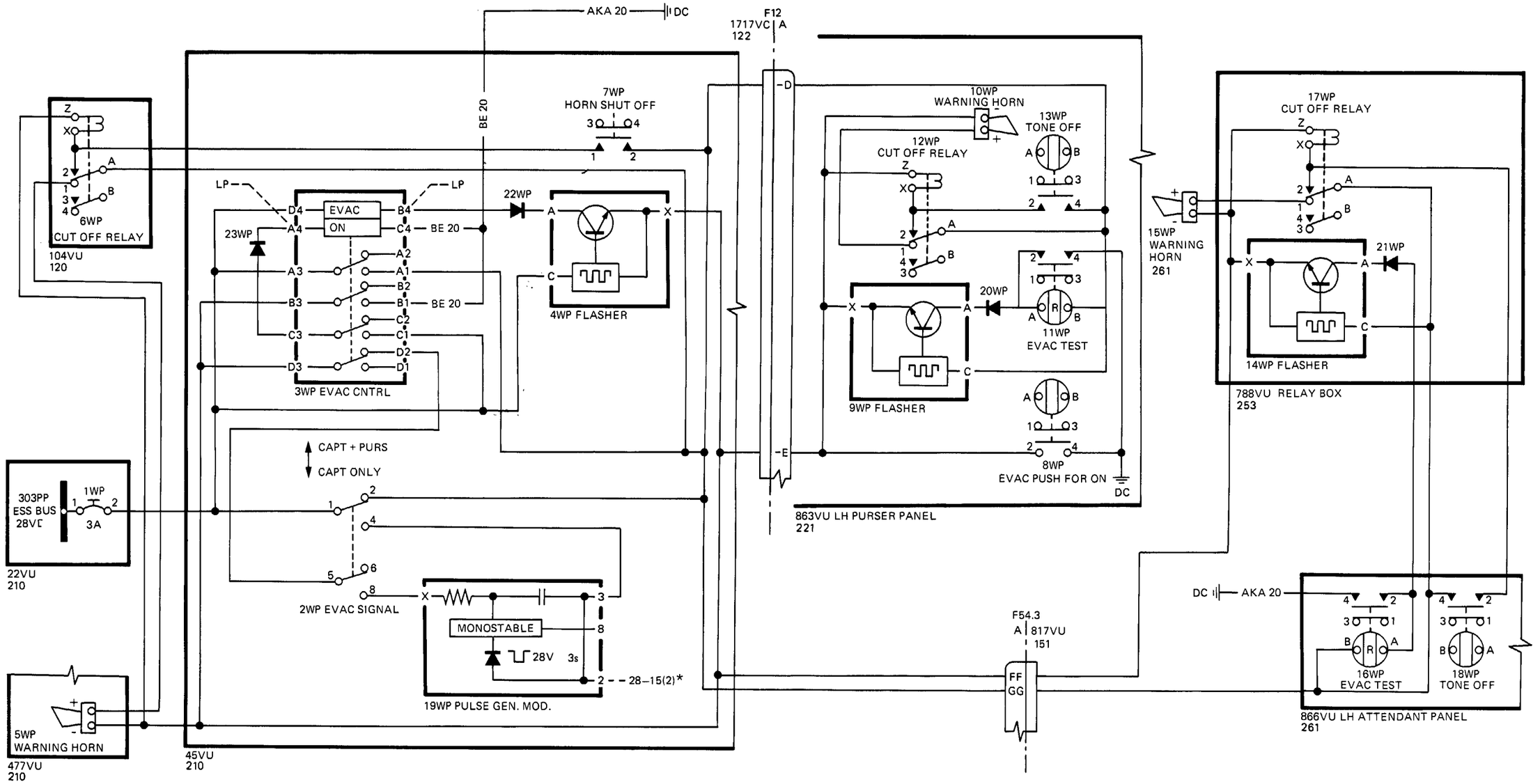


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Evacuation System Schematic
Figure 002

Emergency signalling system, on closure of circuit breaker 1WP, is live and can be activated via switch selection as follows:

- CAPT+PURS provides facility for activation by EVAC/ON switch 3WP in flight compartment or EVAC PUSH FOR ON switch 8WP at purser station.
- CAPT ONLY provides facility for activation by EVAC/ON switch 3WP in flight compartment only.

Activation of system is by closure of switches 3WP or 8WP, so providing ground return to flashing lamps and warning horns. Operation of HORN SHUT OFF 7WP energizes CUT OFF RELAY 6WP to isolate supply to warning horn 5WP.

Cut OFF RELAY 12WP, on activation of system isolates escape slide release warning system (Ref. 52-73-00).

1. Operational Test

A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz |

| Referenced Procedure | |
|---|---|
| - 24-41-00, P. Block 301 | AC External Power Control |

B. Procedure

(1)Job Set-Up

(a)Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).

(b)Make certain that electronic racks ventilation is correct.

(c)Make certain that the following circuit breaker is closed:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | EVAC SIGNAL | 1WP | E24 |

(2)Test

| ACTION | RESULT |
|---|---|
| 1. On panel 45U:<br>- place CAPT+PURS/CAPT ONLY switch 2WP in CAPT+PURS position and press (engage) COMMAND switch 3WP. | On panel 45VU:<br>- EVAC legend flashes.<br>- ON legend comes on.<br>On panel 477VU:<br>- warning horn 5WP sounds.<br>On panel 863VU:<br>- warning horn 10WP sounds.<br>- EVAC TEST warning light 11WP flashes.<br>In zone 261:<br>- warning horn 15WP sounds.<br>On panel 866VU:<br>- EVAC TEST warning light 16WP flashes. |
| 2. On panel 45VU:<br>- press (disengage) COMMAND switch 3WP. | On panel 45VU:<br>- EVAC and ON legends go off.<br>On panel 477VU:<br>- warning horn 5WP stops sounding.<br>On panel 863VU:<br>- EVAC TEST warning light 11WP goes off.<br>- warning horn 10WP stops sounding.<br>On panel 866VU: |

| ACTION | RESULT |
|---|---|
| | - EVAC TEST warning light 16WP goes off.<br>In zone 261:<br>- warning horn 15WP stops sounding. |
| 3. On panel 45U:<br>- press (engage) COMMAND switch 3WP. | On panel 45VU:<br>- EVAC legend flashes.<br>- ON legend comes on.<br>On panel 477VU:<br>- warning horn 5WP sounds.<br>On panel 863VU:<br>- warning horn 10WP sounds.<br>- EVAC TEST warning light 11WP flashes.<br>In zone 261:<br>- warning horn 15WP sounds.<br>On panel 866VU:<br>- EVAC TEST warning light 16WP flashes. |
| 4. On panel 45VU:<br>- press HORN SHUT OFF pushbutton switch 7WP. | On panel 477VU:<br>- warning horn 5WP stops. |
| 5. On panel 863VU:<br>- press TONE OFF pushbutton 13WP. | On panel 863VU:<br>- warning horn 10WP stops sounding. |
| 6. On panel 866VU:<br>- press TONE OFF pushbutton 18WP. | In zone 261:<br>- warning horn 15WP stops sounding. |
| 7. On panel 45VU:<br>- press (disengage) COMMAND switch 3WP. | On panel 45VU:<br>- EVAC and ON legends go off.<br>On panel 477VU:<br>- warning horn 5WP stops sounding<br>On panel 863VU:<br>- EVAC TEST warning light 11WP goes off.<br>- warning horn 10WP stops sounding.<br>On panel 866VU:<br>- EVAC TEST warning light 16WP goes off.<br>In zone 261:<br>- warning horn 15WP stops sounding. |
| 8. On panel 863VU:<br>- press (engage) pushbutton switch 8WP.<br>EVAC PUSH FOR ON. | On panel 45VU:<br>- EVAC legend flashes.<br>- ON legend in COMMAND switch 3WP does not illuminate.<br>On panel 477VU:<br>- warning horn 5WP sounds.<br>On panel 863VU:<br>- warning horn 10WP sounds. |

| ACTION | RESULT |
|---|---|
| | - EVAC TEST warning light 11WP flashes.<br>In zone 261:<br>- warning horn 15WP sounds.<br>On panel 866VU:<br>- EVAC TEST warning light 16WP flashes. |
| 9. On panel 45VU:<br>- place EVAC SIGNAL switch 2WP in CAPT ONLY position. | The cockpit loudspeakers emit an acoustic signal for approx. 3sec.<br>On panel 45VU:<br><br>- EVAC light in COMMAND switch 3WP continues to flash.<br>On panel 477VU:<br>- warning horn 5WP stops sounding.<br>On panel 863VU:<br>- EVAC TEST warning light 11WP goes off.<br>- warning horn 10WP stops sounding.<br>On panel 866VU:<br>- EVAC TEST warning light 16WP goes off.<br>In zone 261:<br>- warning horn 15WP stops sounding. |
| 10. On panel 863VU:<br>- press (disengage) switch 8WP EVAC PUSH FOR ON. | |

R

(3)Close Up
(a)Make certain that working area is clean, and clear of tools and miscellaneous items of equipment.
(b)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

R **ON A/C 101-200,

R

## MISCELLANEOUS EMERGENCY EQUIPMENT - DESCRIPTION AND OPERATION

**ON A/C 101-200,

R

1. General
Miscellaneous emergency equipment is stowed in various locations throughout the flight and passenger compartments (Ref. 25-60-00).

A. Flashlights
The hand held flashlights are installed as a movable light source. They are used if bad light conditions occur during an on-board emergency. The flashlights are battery operated and you can easily replace the batteries.

B. Crash/Emergency Axe
The crash/emergency axe is used to cut through light structures, panels and windows to get access or exit in an emergency. The insulated handle is resistant to high voltages.

C. Emergency Location Transmitter/Beacon
The emergency location transmitter/beacon has:
- a water-activated battery,
- a self erecting antenna,
- a lenyard,
- a special water bag,
- an anti-freeze bat,
- a wet indicator.

D. Megaphone
Flashlight cells give power to the batteries. The unit has a transistorized amplifier. You should replace the batteries once a year. For greater volume and life use alkaline batteries.

E. Protective Gloves
The protective gloves are made of materials that are resistant to heat. They are supplied for use in fire emergencies and to handle overheated equipment.

F. Crowbar
In an emergency the crowbar can be used to open doors that do not move freely, or remove panels for access or exit.

G. Safety Instruction Card

A safety instruction card is put in the rear pocket of each passenger seat. The card shows the passenger, with the aid of illustrations:

- take-off and landing procedures,
- emergency exit and escape slide locations,
- emergency landing procedures,
- use of oxygen mask,
- floor level escape route markings,
- use of life vest.

1. Reason for the Job

A. To program the Emergency Locator Transmitter (ELT) after the aircraft changed its ICAO registration code.

NOTE : The procedure is also applicable for these items of equipment, if they are installed:
- A Programming Box Assembly (PBA)
- A Aircraft Identification Module (AIM)
- A programming dongle.

2. Procedure

A. Aircraft Registration Number Change Procedure
(1)Ask the local Flight Authorities if it is necessary to change the programmed code.

NOTE : Some ELTs have been programmed e.g. with a serial code, that is not dependant on the ICAO registration code.

(2)There are different codes used, make sure that the correct code is programmed.
(3)If you need to program the ELT, do one of the steps that follow:
(a)Use a manufactures programming tool and user handbook, if available, to program the ELT.
(b)If the programming tool is not available, contact the ELT manufacturer for the correct procedure.

R **ON A/C 101-200,

R

## MISCELLANEOUS EMERGENCY EQUIPMENT - ADJUSTMENT/TEST

**ON A/C 101-200,

R

1. Reason for the Job

A. Operational Test of the Emergency Locator Transmitter (ELT) System by manual Activation

B. Functional Test of the ELT System including automatic Activation

2. Equipment and Materials

**ON A/C 101-200,

R

| ITEM | DESIGNATION |
|---|---|
| A.98A25207618000 | Platform - Work, Ceiling Panels, Business and Tourist Class |
| Referenced Procedures | |
| - 25-23-11, P. Block 401 | Ceiling Panels |
| - 25-65-14, P. Block 401 | Antenna - Emergency Locator (112MX) |
| - 25-65-18, P. Block 401 | Control Panel - Remote, Aircraft Emergency Locator (111MX) |
| - 25-65-35, P. Block 401 | Emergency Locator Transmitter (110MX) |

**ON A/C 101-200,

R

3. Procedure

A. Job Set-Up
(1)Make sure that the control panel (Ref. 25-65-18, P. Block 401)

and the transmitter locator (Ref. 25-65-35, P. Block 401) are installed at the correct position.
(2)Position platform P/N 98A25207618000.
(3)Remove the appropriate ceiling panels (Ref. 25-23-11, P. Block 401)

**ON A/C 101-200,

B. Tests
(1)Operational test of the ELT system by manual activation.

CAUTION : DO NOT DO AN ANNUNCIATOR LIGHT TEST DURING THE TEST OF THE EMERGENCY LOCATOR TRANSMITTER (ELT) SYSTEM.
IF YOU DO, YOU CA CAUSE DAMAGE TO AN INTERNAL RELAY OF THE ELT.

CAUTION : DO NOT DO THE EMERGENCY LOCATOR TRANSMITTER (ELT) TEST FOR LONGER THAN 150 SECONDS.
IF YOU DO, THE ELT WILL SEND DISTRESS SIGNALS AND RESCUE OPERATIONS WILL START.

(a)In the flight compartment:
- make sure that the ANN LT switch is not set to the TEST position.
- on the radio management panel set the frequency to 121.5 MHz.
- on the audio control panel adjust the volume of the loudspeaker.

(b)Make sure that there are no unwanted signals transmitted from the ELT during the BITE test.
(c)Make sure that the switch guard (3) is closed on the Remote Control Panel (RCP) 111MX.
(d)In the cabin on the ELT 110MX make sure that:
- the ON/OFF/AUTO switch (5) is set to the AUTO position.
- the antenna connector (9) is connected to the ANT connector (7) on the ELT.
- the connector (8) is connected to the TC connector (4) of the ELT.

(e)Do the subsequent test:

NOTE : The indications and sounds operate continuously for 100 seconds, then intermittently (on for 1 second - off for 1.5 seconds). After 150 seconds the ELT transmits real distress signals on 121.5 MHz, 243 MHz and 406 MHz.
The 406 MHz transmitter operates every 50 seconds, but the first 3 transmissions are in unmodulated carrier mode (ignored by the satellite system).
You need 2 persons to complete the BITE test.

| ACTION | RESULT |
|---|---|
| 1. On the ELT 110MX:<br>- Make sure, the ON/OFF/AUTO switch (5) is set to the AUTO position. | |

| ACTION | RESULT |
|---|---|
| 2. On the RCP 111MX: | The subsequent signals flash once, then stay on: |
| - Push and hold the ELT/TEST/RESET button (1). | - The ELT/ON indicator (2) on the RCP 111MX.<br>- The TX indicator (6) on the ELT 110MX.<br>- The buzzer of the ELT 110MX.<br>- The ELT ON light in the flight compartment on the overhead panel, if installed.<br>- The indicator light 113MX on the panel 108VU in zone 121.<br>- The horn in the nose gear well. |
| - Release the ELT/TEST/RESET button (1), if<br>* The signals of the RESULT operate for approximately 20 seconds<br>or<br>* The ELT/TEST/RESET button (1) has already been held for 100 seconds. | - The signals stop, when the ELT/TEST/RESET button (1) is released. |
| 3. On the ELT 110MX: | The subsequent signals flash once, then stay on: |
| - Set the ON/OFF/AUTO switch (5) to the ON position. | - The ON indicator (2) on the RCP 111MX.<br>- The TX indicator (6) on the ELT 110MX.<br>- The buzzer of the ELT 110MX.<br>- The ELT ON light in the flight compartment on the overhead panel, if installed.<br>- The indicator light 113MX on the panel 108VU in zone 121.<br>- The horn in the nose gear well. |
| - Set the ON/OFF/AUTO switch (5) to the OFF position.<br>* The signals of the RESULT operate for approximately 20 seconds<br>or<br>* The ON/OFF/AUTO switch (5) has already been ON for 100 seconds. | - The signals stop, when the ON/OFF/AUTO switch (5) is set to OFF. |
| 4. On the ELT 110MX:<br>- Set the ON/OFF/AUTO switch (5) to the AUTO position. | |

**ON A/C 101-200,

(Ref. Fig. 501)

**ON A/C 101-200,

(2)Functional test of the ELT system.

CAUTION : DO NOT DO AN ANNUNCIATOR LIGHT TEST DURING THE TEST OF THE EMERGENCY LOCATOR TRANSMITTER (ELT) SYSTEM.
IF YOU DO, YOU CA CAUSE DAMAGE TO AN INTERNAL RELAY OF THE ELT.

CAUTION : DO NOT DO THE EMERGENCY LOCATOR TRANSMITTER (ELT) TEST FOR LONGER THAN 150 SECONDS.
IF YOU DO, THE ELT WILL SEND DISTRESS SIGNALS AND RESCUE OPERATIONS WILL START.

(a)In the flight compartment:
- make sure that the ANN LT switch is not set to the TEST position.
- on the radio management panel set the frequency to 121.5 MHz.
- on the audio control panel adjust the volume of the loudspeaker.

(b)Make sure that there are no unwanted signals transmitted from the ELT during the BITE test.

(c)In the cabin, on the ELT 110MX make sure that:
- the ON/OFF/AUTO switch (5) is set to the AUTO position.
- the antenna connector (9) is connected to the ANT connector (7) on the ELT.
- the connector (8) is connected to the TC connector (4) of the ELT.

(d)Do the subsequent test:

NOTE : The indications and sounds operate continuously for 100 seconds, then intermittently (on for 1 second - off for 1.5 seconds). After 150 seconds the ELT transmits real distress signals on 121.5 MHz, 243 MHz and 406 MHz.
The 406 MHz transmitter operates every 50 seconds, but the first 3 transmissions are in unmodulated carrier mode (ignored by the satellite system).
You need 2 persons to complete the BITE test.

| ACTION | RESULT |
|---|---|
| 1. On the RCP 111MX:<br>- Lift the switch guard (3).<br>- Set the ELT/ARMED/ON switch to | On the RCP 111MX:<br><br>- The ELT/ON indicator (2) comes on. |

| ACTION | RESULT |
|---|---|
| the ON position for approximately 10 seconds. | |
| | NOTE : The ELT operates, and you can ignore the indications and the sounds that occur at these other locations:<br>- At the ELT 110MX, the TX indicator (6) and the buzzer are on.<br>- The ELT ON light in the flight compartment on the overhead panel, if installed.<br>- The indicator light 113MX on the panel 108VU in zone 121.<br>- The horn in the nose gear well. |
| - After approximately 10 seconds set the ELT/ARMED/ON switch to the ARMED position.<br>- Close the switch guard (3). | - The ELT/ON indicator (2) stays on. |
| | NOTE : The ELT continues to operate. The indication and sounds at the other locations continue. |
| - Push the ELT/TEST/RESET button (1). | - The ELT operation stops. The indications and sounds stop. |

**ON A/C 101-200,

R

C. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(2)Install ceiling panel (Ref. 25-23-11, P. Block 401).
(3)Remove platform P/N 98A25207618000.

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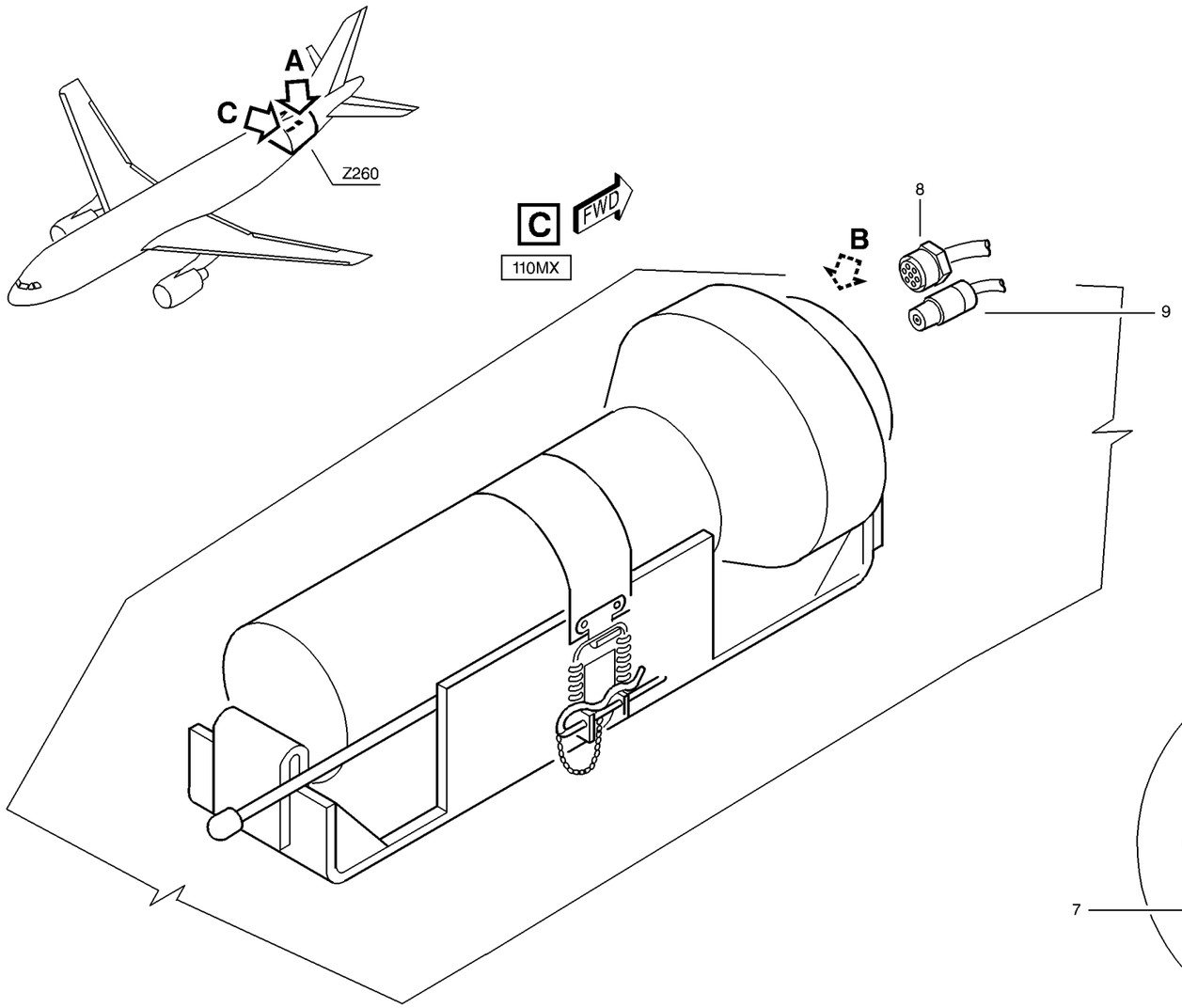
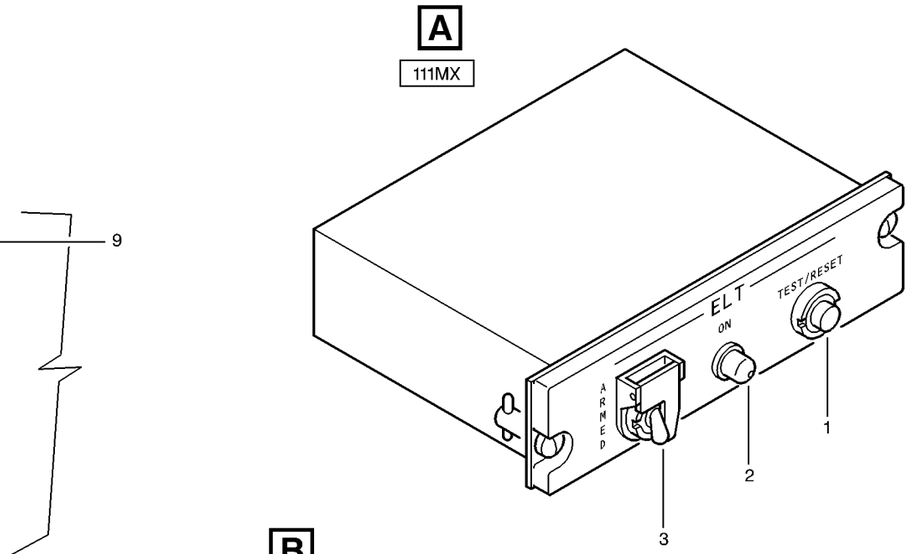
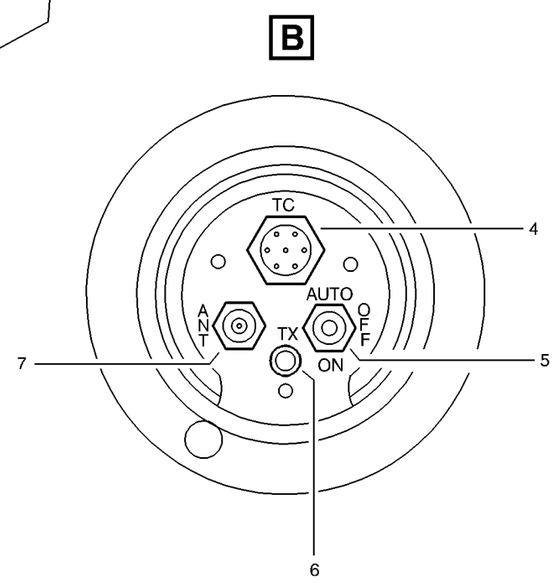



BM6 25 65 00 5 AAM0 00

ELT-Tests
Figure 501

R **ON A/C 101-200,

R

## ANTENNA/EMERGENCY LOCATOR - REMOVAL/INSTALLATION

WARNING : USE SOLVENTS/CLEANING AGENTS, SEALANTS AND OTHER SPECIAL MATERIALS ONLY WITH A GOOD SUPPLY OF AIR.
OBEY THE MANUFACTURERS INSTRUCTIONS.
PUT ON PROTECTIVE CLOTHING.
DO NOT GET THEM IN YOUR MOUTH.
DO NOT SMOKE.
DO NOT BREATHE THE GAS.
THESE MATERIALS ARE POISONOUS AND FLAMMABLE AND SKIN IRRITANTS.
GET MEDICAL HELP IF YOUR SKIN ORE EYES BECOME IRRITATED.

WARNING : DO NOT GET THE COMPOUND ON YOUR SKIN.
IF YOU DO:
- RUB IT OFF IMMEDIATELY WITH A CLEAN CLOTH.
- WASH THE SKIN WITH SOAP AND RINSE WITH CLEAN WATER.

WARNING : IF YOU GET THE FLUID ON YOUR SKIN OR IN YOUR EYES:
- FLUSH IT AWAY WITH CLEAN WATER.
- GET MEDICAL AID.

WARNING : OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THE SPECIAL MATERIAL.
THIS MATERIAL IS DANGEROUS.

1. Reason for the Job

A. Removal of the ELT antenna (112 MX).

**ON A/C 101-200,

R

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 8 m (26 ft. 3 in.) |
| B. | Blanking Caps |
| C. | Clean, Lint-Free Cloth |
| D. | Masking Tape |
| E. | Nonmetallic Scraper |
| F. Material No. 05-013 | Special Materials (Ref. 20-31-00) |
| G. Material No. 07-001B | Lacquers (Ref. 20-31-00) |

| ITEM | DESIGNATION |
|---|---|
| H. Material No. 09-016 | Sealants (Ref. 20-31-00) |
| J. Material No. 09-019 | Sealants (Ref. 20-31-00) |
| K. Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| L. Material No. 16-003 | Structure Paints (Ref. 20-31-00) |

**ON A/C 101-200,

R

Referenced Procedures

| | |
|---|---|
| - 20-28-11, P. Block 1 | Electrical Bonding |
| - 25-65-00, P. Block 501 | Miscellaneous Emergency Equipment |
| - 51-76-10, P. Block 801 | Repair of Sealing |

**ON A/C 101-200,

R

3. Procedure (Ref. Fig. 401)

**ON A/C 101-200,

R

A. Job Set-Up
(1)Position access platform.

**ON A/C 101-200,

R

B. Removal
(1)Remove the sealant from the heads of the screws (1) with the nonmetallic scraper.
(2)Remove the screws (1).
(3)Lift the antenna (2) carefully away from the fuselage and disconnect the coaxial connector, 112MX-A (3) from the antenna.
(4)Remove the antenna (2).
(5)Put blanking caps on the disconnected electrical connectors.
(6)Remove and discard the O-ring seal (4).

**ON A/C 101-200,

R

C. Preparation for Installation
(1)Remove the old sealant from the bottom of the antenna (2) and the fuselage attach structure (5) with a nonmetallic scraper.
WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROURS.
(2)Clean the component interface and/or the adjacent area with cleaning agent (Mat. No. 11-003) and a lint-free cloth.
(3)Make an inspection of the component interface and/or the adjacent area.
NOTE : Make sure that there is no paint, corrosion or sealant in the antenna screw-head recesses. This is necessary because the antenna electrical bonding is made through the antenna attach screws.
(4)Before you apply the sealant, mask these areas with masking tape:
(a)Adjacent to the fuselage attach structure (5) where you will install the antenna (2).
(b)The antenna attach-screw holes and the coaxial connector access-hole.
(c)The area of the antenna (2) where sealant is not required.

**ON A/C 101-200,

R

D. Installation
(1)Apply sealant (Mat. No. 09-019) to the area of the fuselage attach structure (5) that makes an interface with the antenna (Ref. 51-76-10, P. Block 801).
(2)Apply special material (Mat. No. 05-013) to the bottom of the antenna (2).
(3)Remove the masking tape from the antenna attach screw-holes and the coaxial connector access-hole.
(4)Remove the blanking caps from the electrical connectors.
(5)Make sure that the electrical connectors are clean and in the correct condition.
(6)Install a new O-ring seal (4).
(7)Connect the coaxial connector, 112MX-A (3) to the antenna (2).
(8)Put the antenna (2) in position and install the screws (1).
(9)Tighten the screws (1).
(10)Remove any unwanted sealant with the nonmetallic scraper.
(11)Remove the remaining masking tape.
(12)Make sure that the bonding resistance between the antenna (2) and the aircraft fuselage is not more than 5 milliohms (Ref. 20-28-11, P. Block 1).
(13)Do the BITE test of the ELT system (Ref. 25-65-00, P. Block 501).

**ON A/C 101-200,

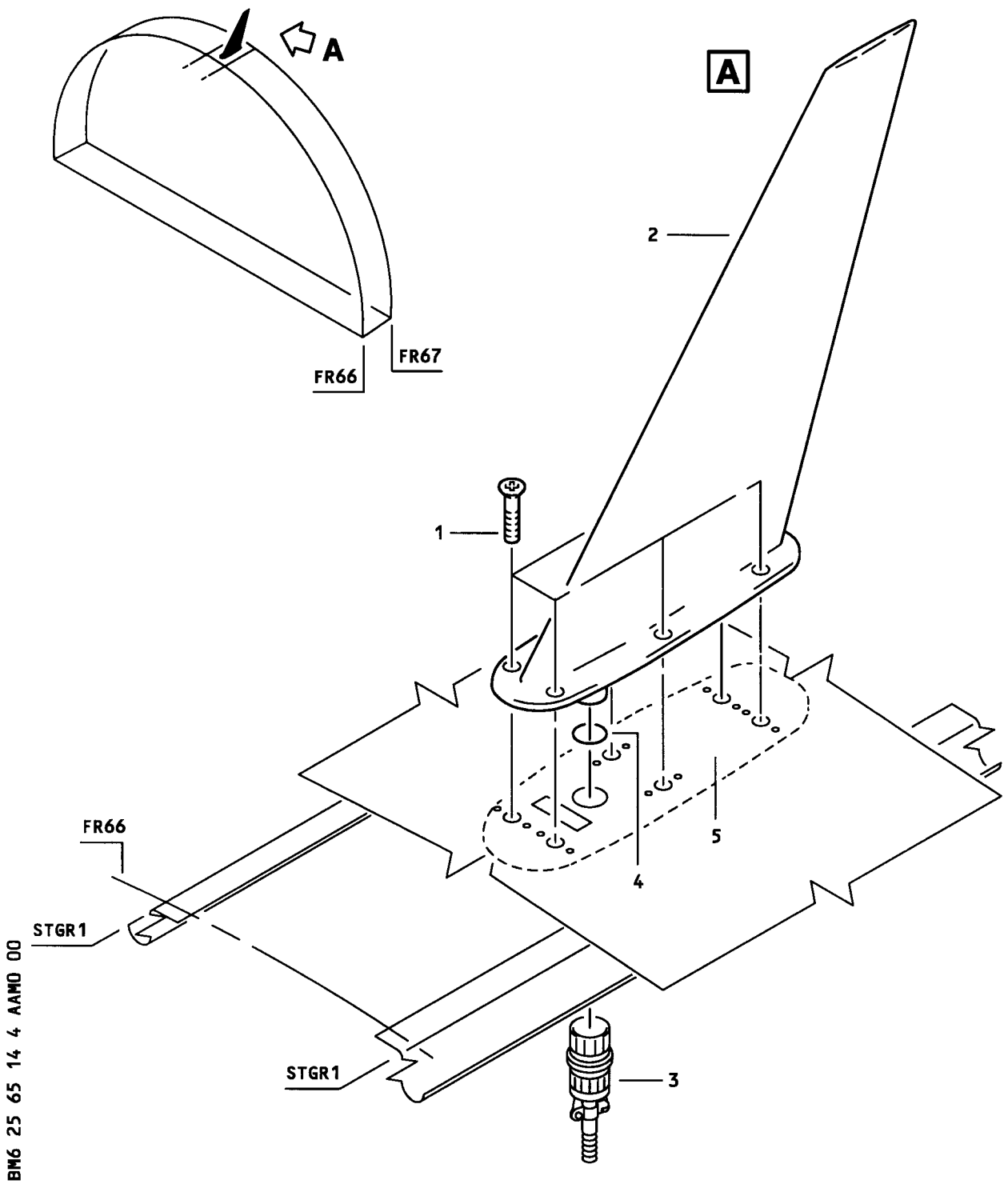
R

E. Application and curing of Sealant:
(1)Apply a bead of sealant (Mat. No. 09-016) around the base of the antenna (2) where it attaches to the fuselage.
(2)Apply sealant (Mat. No. 09-016) to the heads of the screws (1).
(3)Make a smooth contour of the sealant around the base of the antenna (2) and the heads of the screws (1).
(4)Let the sealant cure.
(5)Apply structure paint (Mat. No. 16-003) to the sealant around the base of the antenna (2).
(6)Apply lacquers (Mat. No. 07-001B) to the sealant on the heads of the screws (1).

**ON A/C 101-200,

R

F. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove the access platform.




Emergency Transmitter Antenna - Typical Installation
Figure 401

R **ON A/C 101-200,

R

## CONTROL PANEL/REMOTE, EMERGENCY LOCATOR - REMOVAL/INSTALLATION

1. Reason for the Job

A. Removal of the ELT remote control panel (111 MX).

**ON A/C 101-200,

R

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Blanking Caps |

**ON A/C 101-200,

R

| | |
|---|---|
| Reference Procedure<br>- 25-65-00, P. Block 501 | Miscellaneous Emergency Equipment |

**ON A/C 101-200,

R

3. Procedure (Ref. Fig. 401)

**ON A/C 101-200,

R

A. Job Set-Up
(1)Gain access to the passenger compartment through an appropirate passenger/crew door.

**ON A/C 101-200,

R

B. Removal
(1)Loosen the quick release screws (1).
(2)Carefully move the control panel (3) from its location until you can get access to the electrical connector.
(3)Disconnect the electrical connector, 111MX-A (2).
(4)Remove the control panel (3).
(5)Put blanking caps on the disconnected electrical connectors.

**ON A/C 101-200,

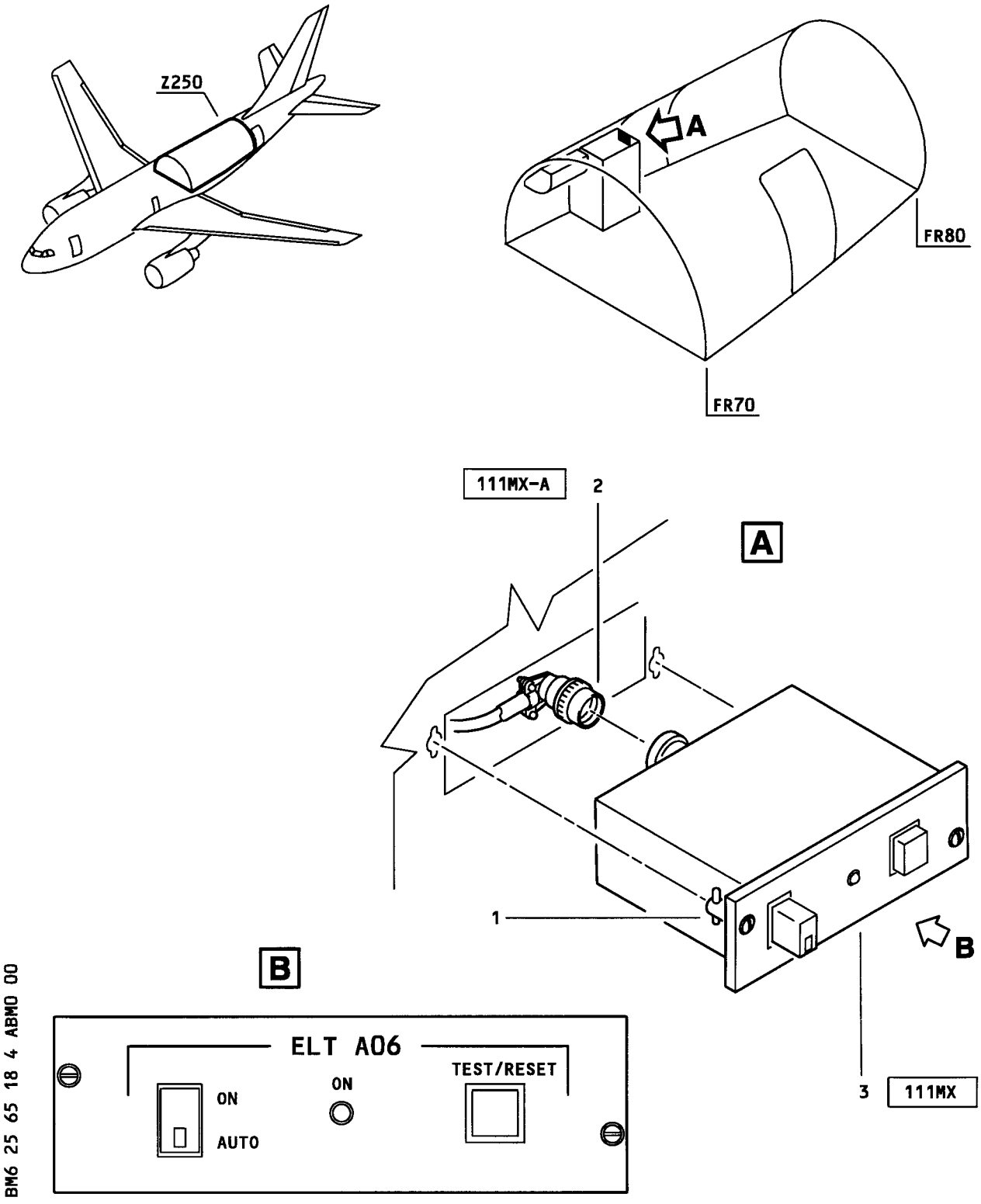
R

C. Installation
(1)Make an inspection of the component interface and/or the adjacent area.
(2)Remove the blanking caps from the electrical connectors.
(3)Make sure that the electrical connectors are clean and in the correct condition.
(4)Connect the electrical connector, 111MX-A (2).
(5)Put the control panel (3) in position.
(6)Tighten the quick release screws (1).
(7)Do the BITE test (Ref. 25-65-00, P. Block 501).

**ON A/C 101-200,

R

D. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.




ELT Remote Control Panel
Figure 401

1. Check of Portable Emergency Locator Transmitters (Ref. Fig. 601)

NOTE : Portable emergency locator transmitters are provided within the passenger compartment.

NOTE : A placard outside of the cabin stowages shows the location of the emergency locator transmitters.

A. Procedure

(1)Remove emergency locator transmitters from the mounting brackets.
(2)Make certain that transmitter containers and the attached equipment is not damaged.

CAUTION : DO NOT REMOVE THE ANTENNA HOLDER. THE EMERGENCY LOCATOR TRANSMITTER TRANSMITS AUTOMATICALLY WHEN ANTENNA RELEASED.

(3)Check antenna and make certain that antenna, antenna holder and antenna spring assembly are not damaged.
(4)Check operating instruction placard.
(5)Make certain that placard is not damaged.
(6)Check the tow-line assembly.
(7)Make certain that the tow-line is not damaged, and that one end is attached to the tow-line attach assembly.

NOTE : If one or more of the above inspections are not satisfactory, change the emergency locator transmitter.

(8)Check if life of battery service expired, install a new battery.
(9)Check transmitter mounting bracket, and replace if damaged.

B. Close-Up

(1)Install emergency locator transmitters at the mounting brackets.
(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

R 2. Removal of Portable Emergency Locator Transmitter (ELT) for Workshop Test

R A. Reason for the Job
R Removal of the Portable ELT for Workshop Test (Battery Check and
R Functional Check)

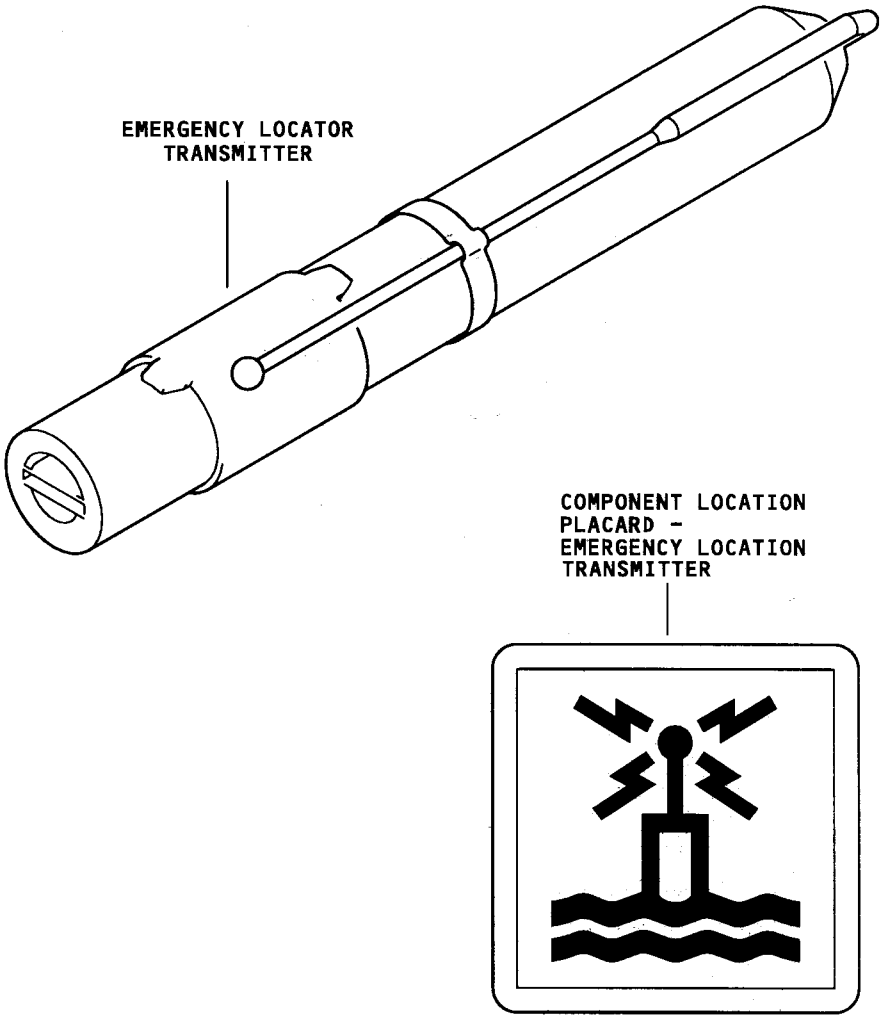
R B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Electrical Ground Power Unit - 3-Phase 115/200 V, 400 Hz |

R Referenced Procedures
R - 24-41-00, P. Block 301 AC External Power Control

R C. Procedure
R (1)Job Set-Up
R (a)Connect electrical ground power unit and energize the aircraft network (Ref. 24-41-00, P. Block 301).
R (b)Make certain that the electronics racks ventilation is correct.

EXAMPLE

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Emergency Locator Transmitter
Figure 601

R (2)Removal
R (a)Open the door/access panel of the stowage compartment(s).

R NOTE : A placard outside of the stowages shows the location of
R the ELT(s).

R (b)If necessary, release/open the straps/clamps.
R (c)Remove the ELT(s) from the stowage compartment(s).
R (d)Send the ELT(s) for testing to the workshop.
R (3)Installation
R (a)Install a serviceable or replacement ELT(s).
R (b)Attach/close the straps/clamps.
R (c)Close the door/access panel of the stowage compartment(s).
R (4)Close-Up
R (a)Make sure that the work area is clean and clear of tools and other
R items.
R (b)De-energize the aircraft electrical network and disconnect the
R electrical power unit (Ref. 24-41-00, P. Block 301).

1. Replacement of Megaphone Batteries (Ref. Fig. 601)

A. Procedure

(1)Remove megaphones from the mounting brackets.
(2)Apply light pressure on bottom of battery cartridge (2), installed in the megaphone handle (3).
(3)Remove thumbscrew (4).
(4)Remove battery cartridge (2) from the handle (3).
(5)Remove and discard batteries (5).
(6)Install new batteries (5).
NOTE : Make certain that batteries (5) are installed in the correct direction of polarity, as shown on the battery cartridge (2).
(7)Install battery cartridge (2) in the handle (3).
(8)Apply light pressure on the bottom of the battery cartridge (2).
(9)Install and tighten the thumbscrew (4).

2. Megaphone Operational Test

A. Procedure

| ACTION | RESULT |
|---|---|
| 1. Hold the megaphone with one hand and put the mouthpiece against your lips: | From the megaphone: |
| - push the trigger-button and speak into the mouthpiece. | - listen for a -click- and make sure that your voice is amplified and that it is loud and clear. |
| - release the trigger-button. | - listen for a -click- and make sure that the amplification of your voice stops.<br>NOTE : A ringing sound is normal when you operate the megaphone in a small compartment or empty room. Sound reverberation causes this. |

NOTE : The adjustment procedure is only necessary if the operational test is negative.

B. Adjustment Procedure

(1)Remove rubber plug (6) from megaphone horn assembly (1) at the rear of the megaphone handle (3).
(2)Put a small screwdriver into rubber plug insert hole and carefully

engage the volume potentiometer adjustment head.

(3)Push trigger-button (7) and make these adjustment:

(a)Turn potentiometer adjustment head clockwise with the screwdriver, to increase amplifier sensitivity and feedback gain.

NOTE : Feedback is the supply of some of the output signals from the amplifier to its input. This can produce very high noise in an enclosed area.

(b)Slowly turn potentiometer adjustment counterclockwise until the noise from the feedback stops.

(4)Release the trigger-button (7).

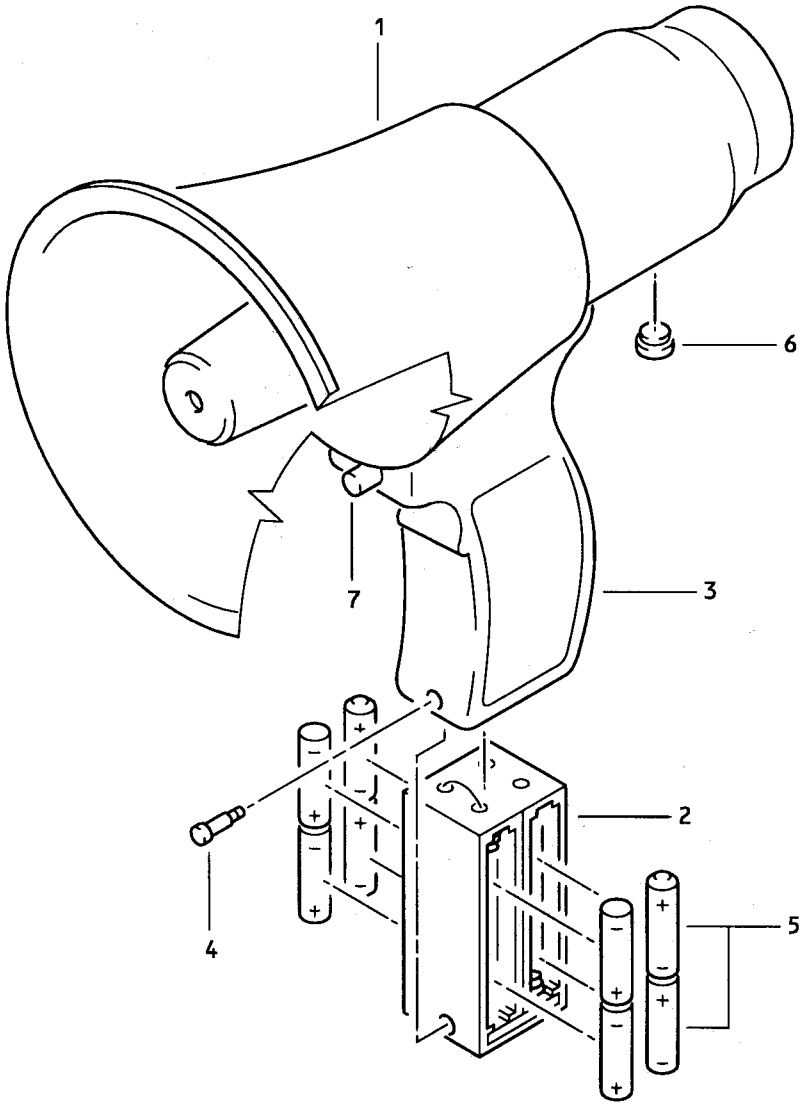
(5)Install rubber plug (6) in the horn assembly (1).

C. Close-Up

(1)Install megaphones at the mounting brackets.

(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

EXAMPLE




BM6 25 65 32 6 AAM0 00

Megaphone
Figure 601

R **ON A/C 101-200,

R

## TRANSMITTER/EMERGENCY LOCATOR - REMOVAL/INSTALLATION

**ON A/C 101-200,

R

1. Reason for the Job

A. Removal of the Emergency Locator Transmitter (ELT) 110MX.

B. Removal of the Emergency Locator Transmitter (ELT) 110MX for battery replacement.

**ON A/C 101-200,

R

2. ELT Transmitter (110 MX).

A. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Blanking Caps |
| (2)98A25207618000 | Platform - Work, Ceiling Panels, Business and Tourist Class |

**ON A/C 101-200,

R

| Reference Procedure | |
|---|---|
| - 25-23-11, P. Block 401 | Ceiling Panels |
| - 25-65-00, P. Block 501 | Miscellaneous Emergency Equipment |

**ON A/C 101-200,

R

B. Procedure (Ref. Fig. 401)

**ON A/C 101-200,

R

(1)Job Set-Up
(a)Gain access to passenger compartment through an appropirate passenger/crew door.
(b)Position platform P/N 98A25207618000.
(c)Remove the appropirate ceiling panels (Ref. 25-23-11, P. Block 401).

**ON A/C 101-200,

R

(2)Removal
(a)Set the 3-position transmitter control switch (1) to OFF.
(b)Disconnect the antenna coaxial connector, 110MX-B (2).
(c)Disconnect the control-panel electrical connector, 110MX-A (3).
(d)Put blanking caps on the disconnected electrical connectors.
(e)Remove the lock pin (4).
NOTE : The lock pin is attached to the transmitter support bracket (10) by a short lanyard (5).
(f)Lift the latch lever (6) and disengage the latch hook (7).
(g)Lift the transmitter support-bracket clamp (8).
(h)Carefully remove the transmitter (9) from the transmitter support bracket (10).
NOTE : Make sure you do not damage the transmitter antenna (11). The antenna is for use in the 'portable bacon' mode.

**ON A/C 101-200,

R

(3)Installation
(a)Make sure that the transmitter control switch (1) is set to OFF.
(b)Make an inspection of the component interface and/or the adjacent area.
(c)Carefully put the transmitter (9) in the transmitter support bracket (10).
(d)Put the transmitter support bracket clamp (8) in position.
(e)Engage the latch hook (7) in the latch lever (6).
(f)Close the latch lever (6).
(g)Install the lock pin (4) and make sure that you cannot lift up the latch lever (6).
(h)Remove the blanking caps from the electrical connectors.
(j)Make sure that the electrical connectors are clean and in the correct

condition.
(k)Connect the control-panel electrical connector, 110MX-A (3).
(l)Connect the antenna coaxial connector, 110MX-B (2).
(m)Set the transmitter control switch (1) to AUTO.
(n)Do the BITE test of the ELT system (Ref. 25-65-00, P. Block 501).

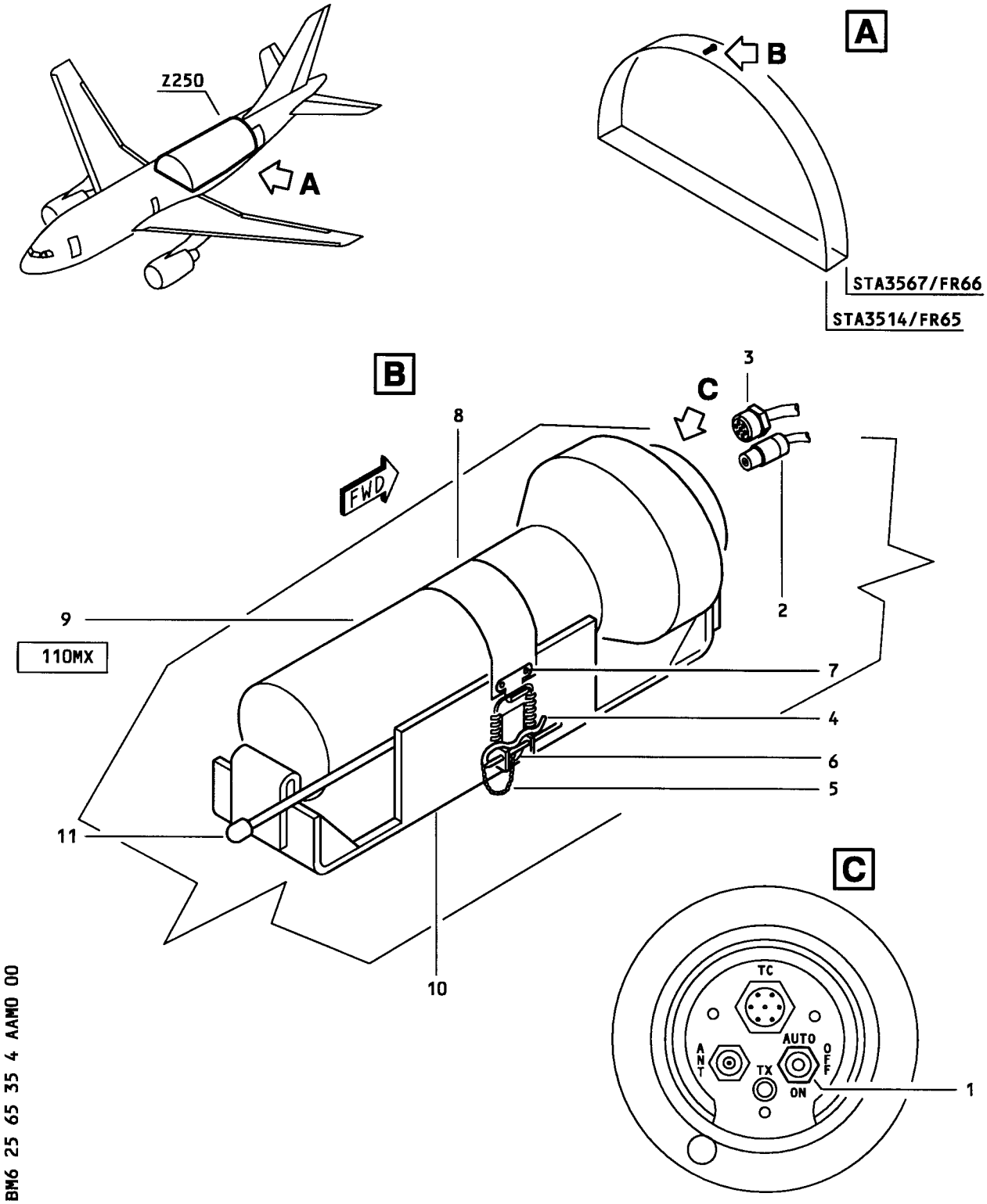
**ON A/C 101-200,

(4)Close-Up
(a)Make sure that working area is clean and clear of tools and miscellaneous items of equipment.
(b)Install the ceiling panels (Ref. 25-23-11, P. Block 401).
(c)Remove platform P/N 98A25207618000.

**ON A/C 101-200,

3. ELT Battery

A. Procedure
(1)Job Set-up
(a)Remove ELT transmitter (see above).
(2)Removal
(a)Remove battery (Ref. CMM 25-60-01).
(3)Installation
(a)Install battery (Ref. CMM 25-60-01).
(4)Close-up
(a)Install ELT transmitter (see above).




Emergency Transmitter - Typical Installation
Figure 401

# RAPID DECOMPRESSION SYSTEM - DESCRIPTION AND OPERATION

1. General
   To safeguard the aircraft structure against the effects of explosive decompression, the passenger compartment and cargo compartments are fitted with a system of decompression panels.
2. Component Location

A. Passenger Compartment
(Ref. Fig. 001)

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 1 | Lower Sidewall Decompression Panel | 230/240/250 | 830/840 |

B. FWD Cargo Compartment
(Ref. Fig. 002)

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 2 | Sidewall Decompression Panel | 130 | 811 |
| 3 | Partition Decompression Panels FR38.2 | 130 | 811 |
| 4 | Sidewall Decompression Panels LH | 130 | 811 |
| 5 | Avionics Partition Decompression Panels FR20 | 130 | 811 |
| 6 | End Decompression Panel | 130 | 811 |

C. AFT and BULK Cargo Compartments

R **ON A/C 001-005, 101-200,

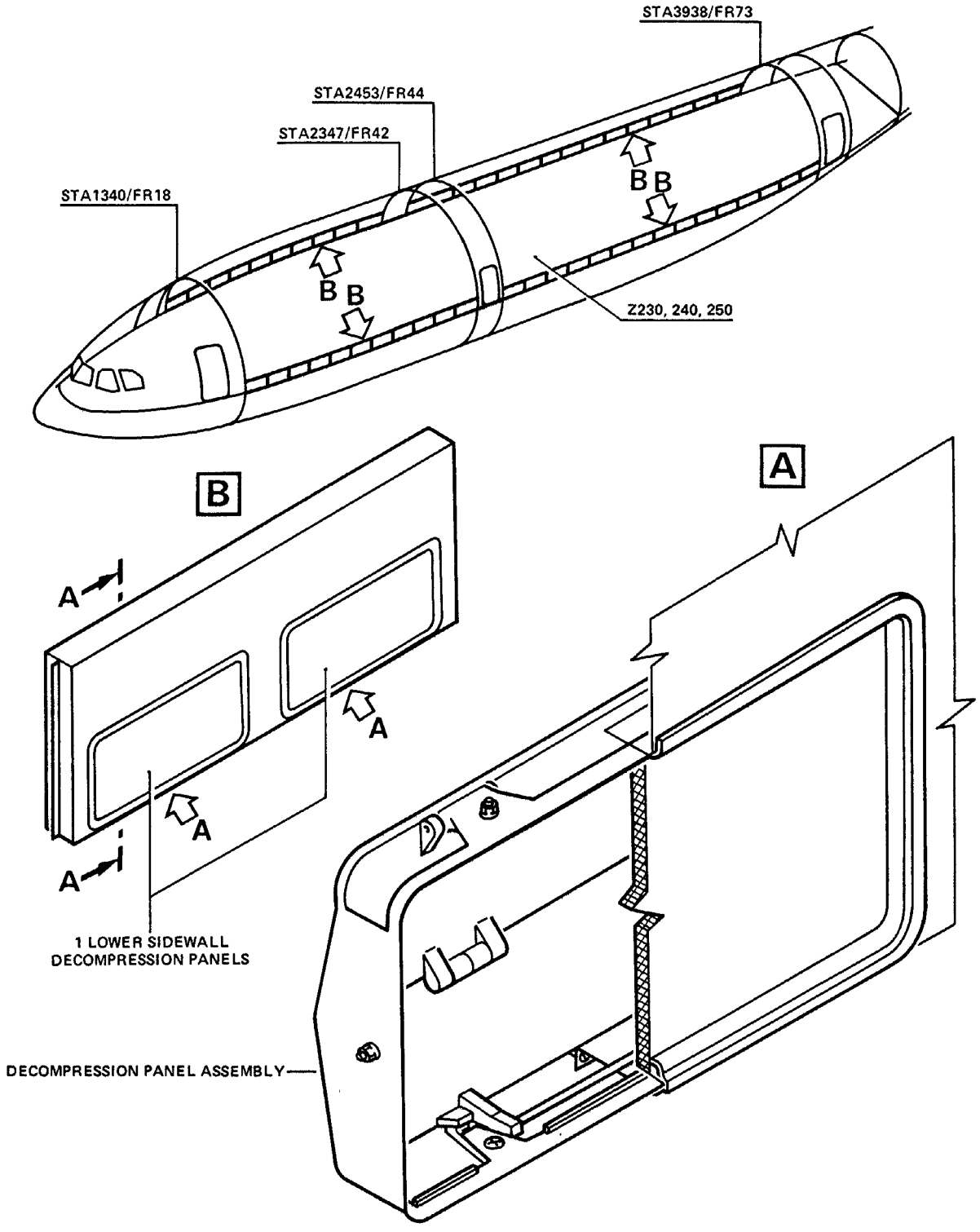
(Ref. Fig. 003)

**ON A/C 006-100,

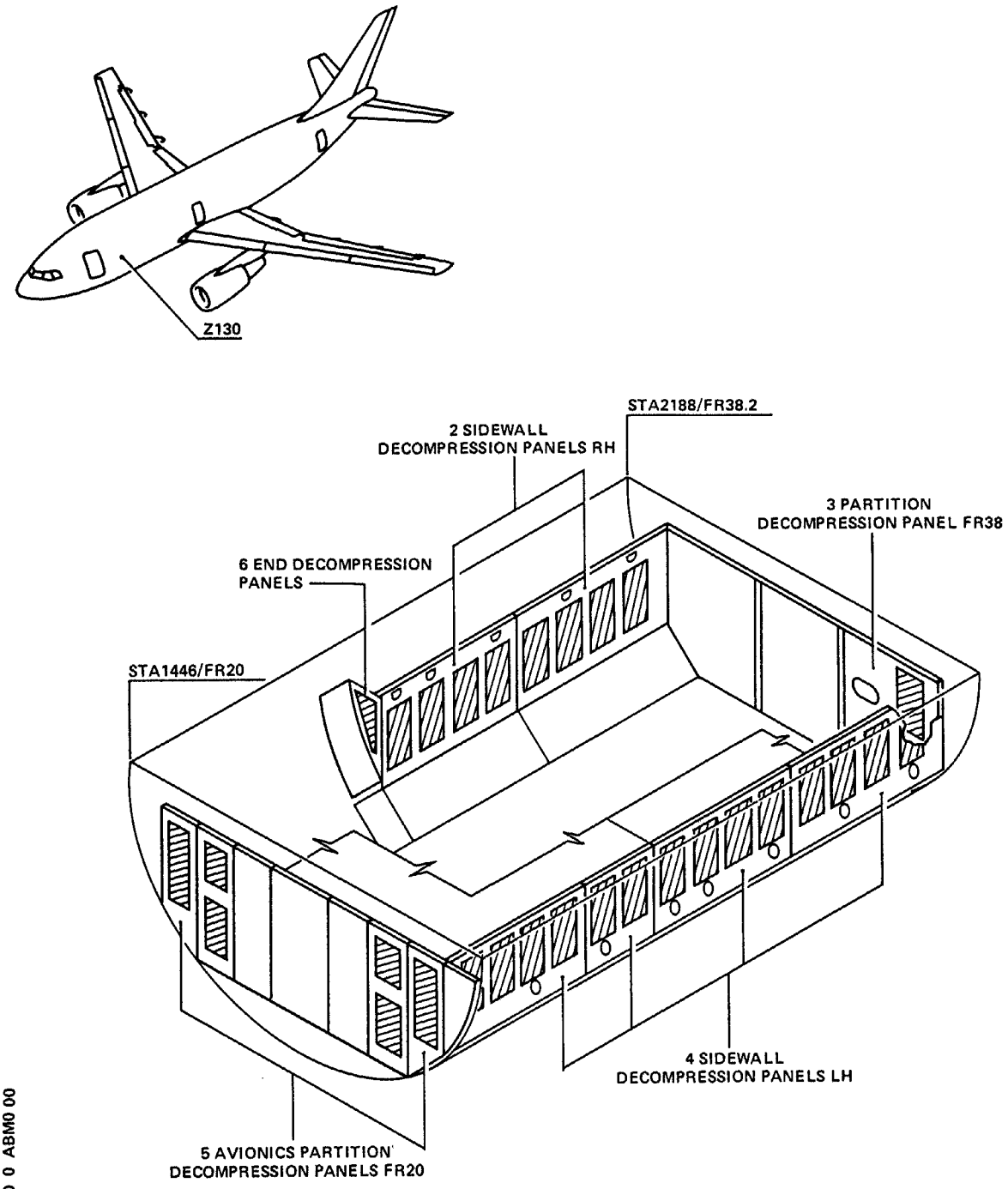
(Ref. Fig. 004)

R **ON A/C ALL

| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| 7 | Sidewall Decompression Panel RH | 150 | 812 |
| 8 | Ceiling Decompression Panel | 150/160 | 812/813 |
| 9 | Partition Decompression Panel FR70 | 160 | 813 |
| 10 | End Decompression Panel | 160 | 813 |
| 11 | Dividing Screen Decompression Panel | 150/160 | 812/813 |
| 12 | Sidewall Decompression Panels LH | 150 | 812 |
| | Cockpit-Door Evacuation and Decompression Panel | | 120 811 |




Passenger Compartment Decompression Panels
Figure 001

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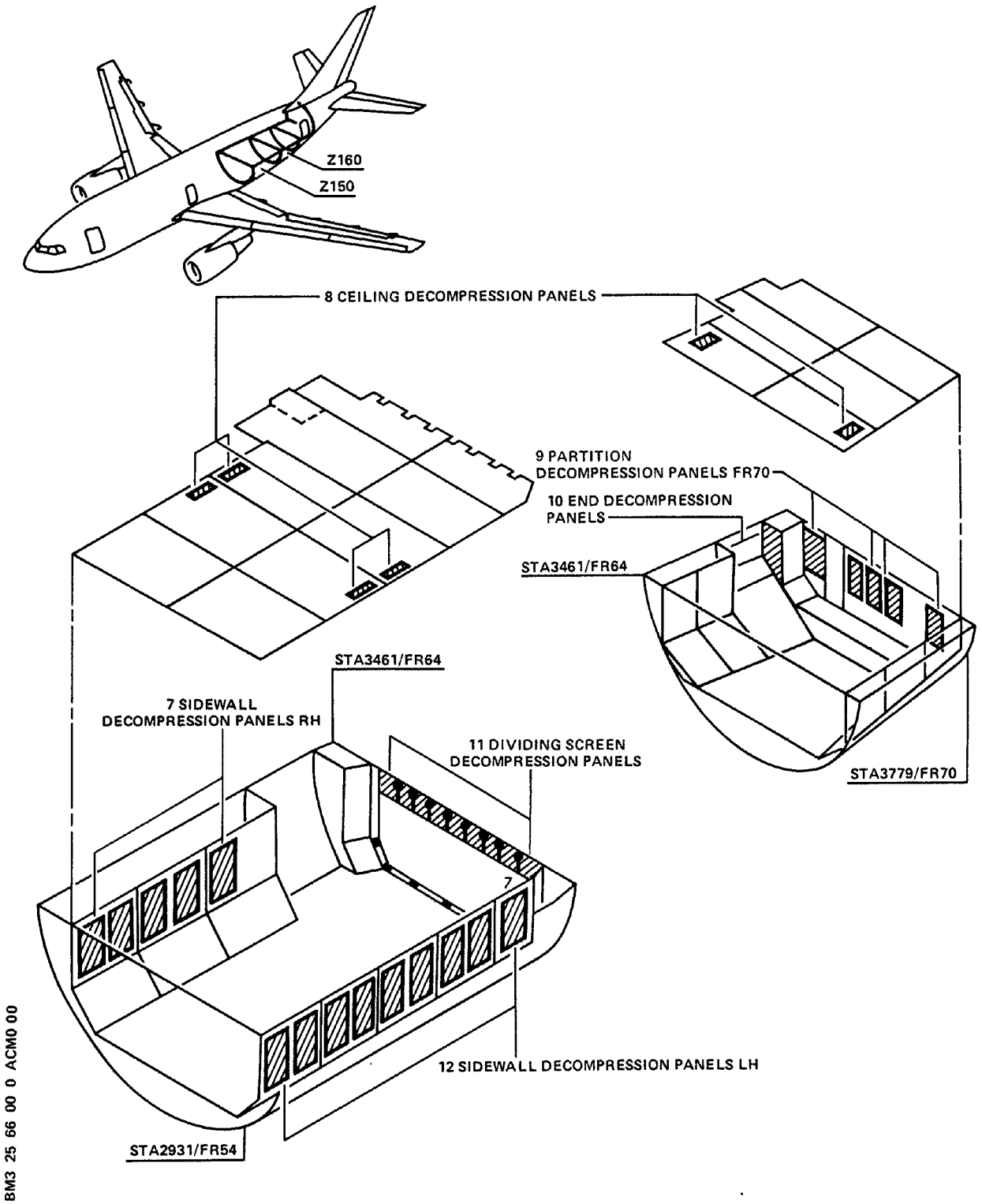
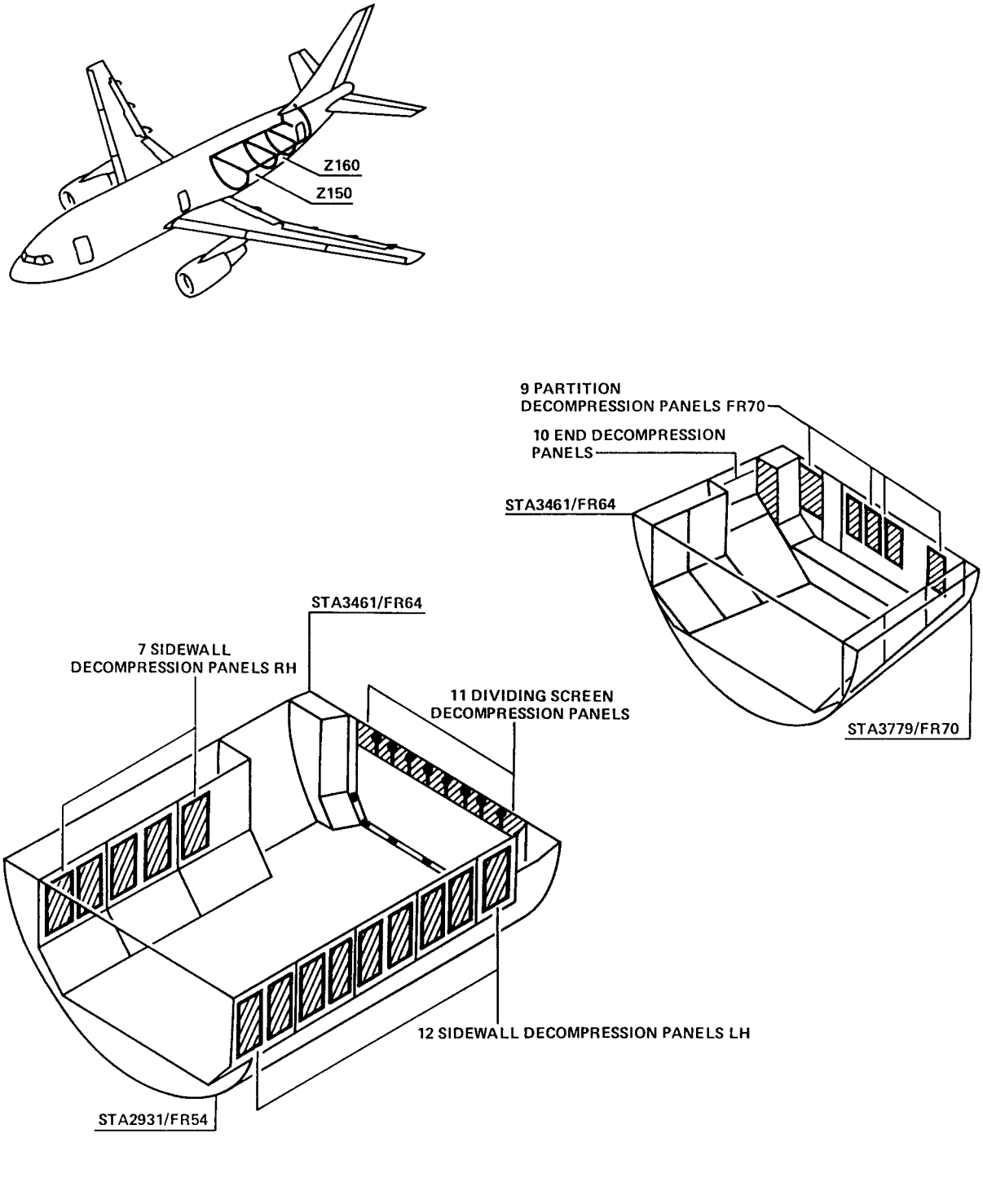
FWD Cargo Compartment Decompression Panels
Figure 002




AFT and BULK Cargo Compartment
Decompression Panels
Figure 003




AFT and BULK Cargo Compartment
Decompression Panels
Figure 004

R

R EFFECTIVITY: 006-100,

PIA

R 3. Description and Operation

(Ref. Fig. 005)

A. Passenger Compartment

(1) Decompression panels are designed to remain in position until displaced by a pressure differential arising from a rapid loss of cabin pressure while the aircraft is in flight.

(2) The passenger compartment decompression panels are installed in the lower sidewall and are latched in the closed position. The panels begin to open when a pressure differential of 30 millibars (0.44 lbf./sq.in.) is felt across the upper and lower decompression plates. This pressure differential causes the upper and lower decompression plates to be displaced about their center hinges. The latch hooks on the lower decompression plate are released and the split decompression plate complete with decor panel which are connected by springs move rearwards allowing a large volume of air to flow through the panel to provide pressure relief.

B. FWD Cargo Compartment

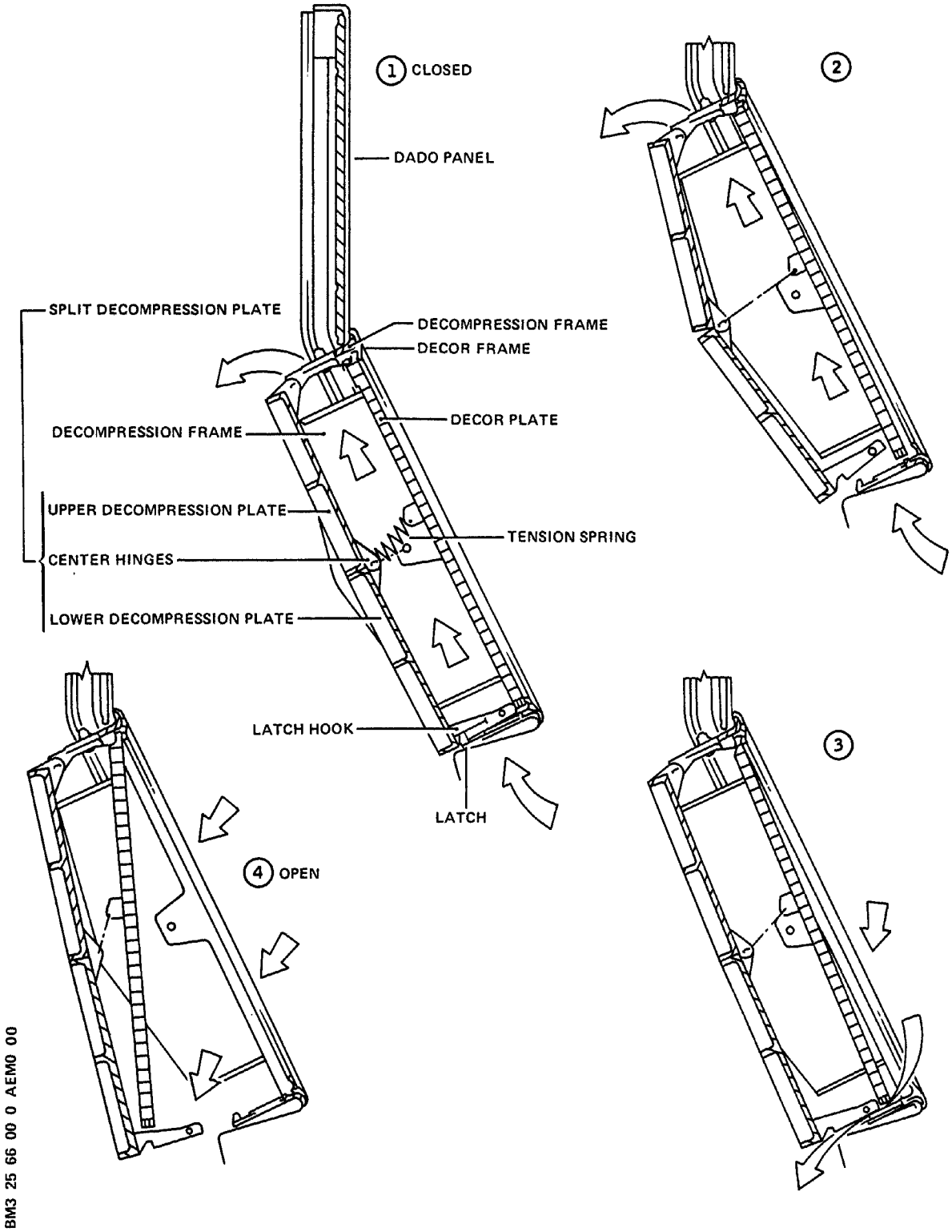
(1) The FWD cargo compartment is provided with decompression panels. These decompression panels are installed in the:
- Avionics partition FR20/STA1446,
- Sidewall panels LH and RH,
- Partition FR38.2/STA2188.

The decompression panels are secured in their cut-outs with catch assemblies and sealed with adhesive tape. Should these panels become displaced for any reason, they require only to be pulled back lightly into position. They open when a differential pressure of 60 millibars (0.9 lbf./sq.in.) is felt across them, allowing excess pressure to flow from the cargo compartment into the area between the cargo compartment ceiling and the passenger compartment floor.

C. AFT and Bulk Cargo Compartment

(1) Both AFT and BULK cargo compartments have decompression panels fitted in their ceilings. The panels are of hinged design and open when a differential pressure of 60 millibars (0.9 lbf./sq.in.) is felt across then, allowing excess pressure to flow from the cargo compartments into the area between the cargo compartments ceilings and the passenger compartment floor. Should these panels become displaced for any reason they require only to be pulled back lightly into position.

The AFT cargo compartment is also provided with decompression panels in the sidewalls, while the BULK cargo compartment panels are fitted in the entrance sides and rear wall. The panels are designed to relieve pressure into the cargo compartment when a pressure differential of 60 millibars (0.87 lbf./sq.in.) is felt across them and to relieve from the cargo compartment when a pressure differential of 90 millibars (1.3 lbf./sq.in.) is felt across them. In the event of these panels becoming dislodged, they need only be pressed back into position. The dividing screen

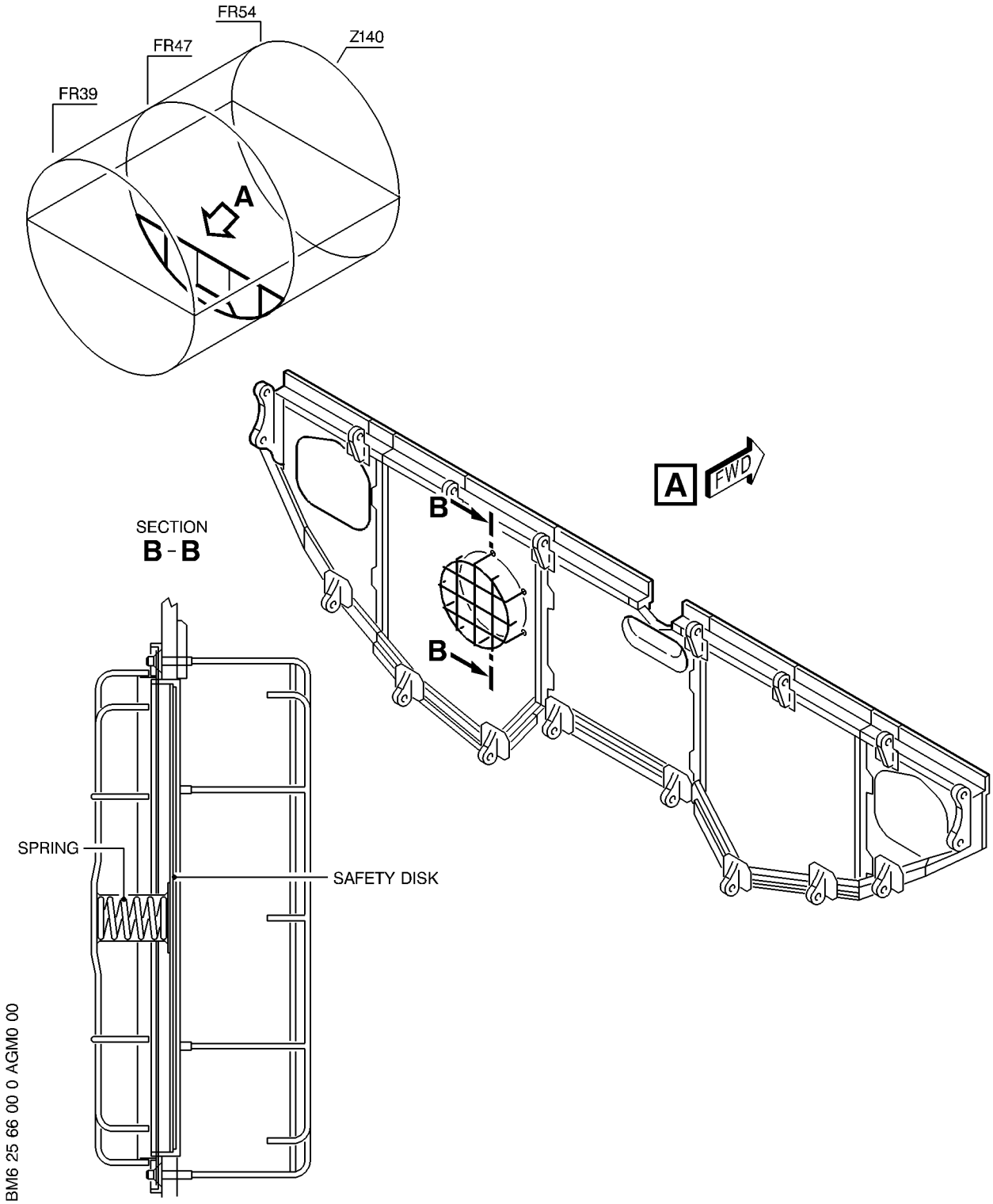



Operation of Decompression Panels
Passenger Compartment
Figure 005

separating the two compartments has flap-type panels which are connected to the ceiling and require no repositioning.

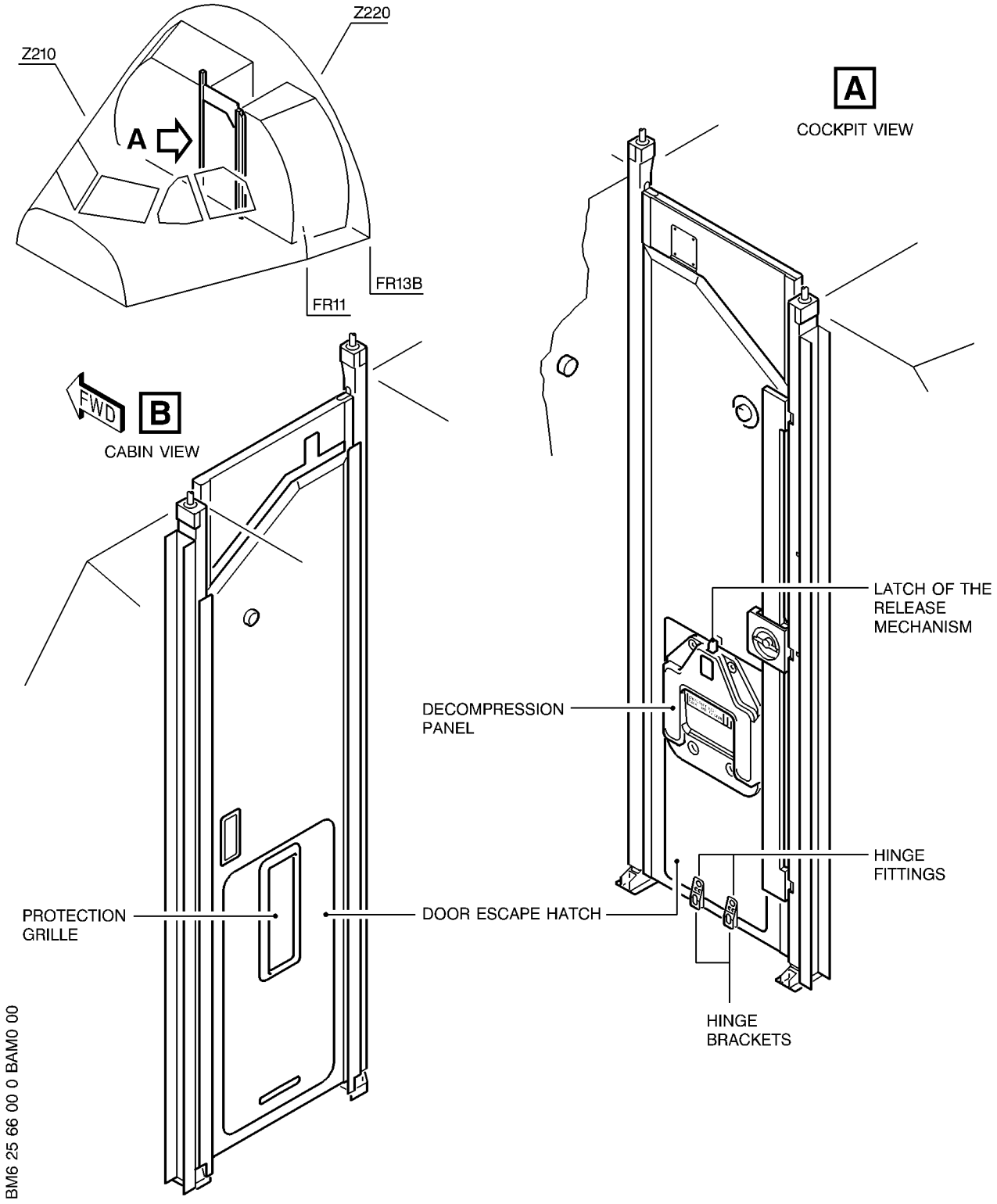
R D. Cockpit Door
R (Ref. Fig. 007, 008)
R An evacuation and rapid-decompression panel (referred to as panel) is
R installed in the cockpit door. It has a decompression release-mechanism
R (DRM) installed on the cockpit side of the door. The DRM has a latch
R that locks the top of the panel in position in the door. The panel has two
R hinges installed that lock the bottom of the panel in position in the
R door. The cockpit door has a hole on the cabin side. The hole is covered
R by a steel shield, a filter and a protective grille.
R In usual operation the cockpit door permits access to and from the
R cockpit to the cabin. During flight the cockpit door is closed and
R locked.
R If a rapid-decompression in the cabin occurs, the decrease in pressure
R causes the DRM to operate. The DRM has a bellows assembly which is
R connected through the hole in the flap to the cabin side. Suction
R causes the air to flow rapidly out from the bellows assembly. This
R causes the bellows assembly to compress, which releases the latch on
R the top of the flap. The flap, still held by the hinges at the bottom
R edge, swings rapidly down onto the cabin floor. The air can flow rapidly
R from the cockpit into the cabin.

R E. Air Conditioning Compartment
R (Ref. Fig. 006)
R One overpressure valve with a safety disc is installed behind the
R air conditioning compartment.
R In case of overpressure in the air conditioning compartment, the safety
R disc will eject from its seat and will release the pressure into
R the main landing gear compartment. This prevents damage to the structure.

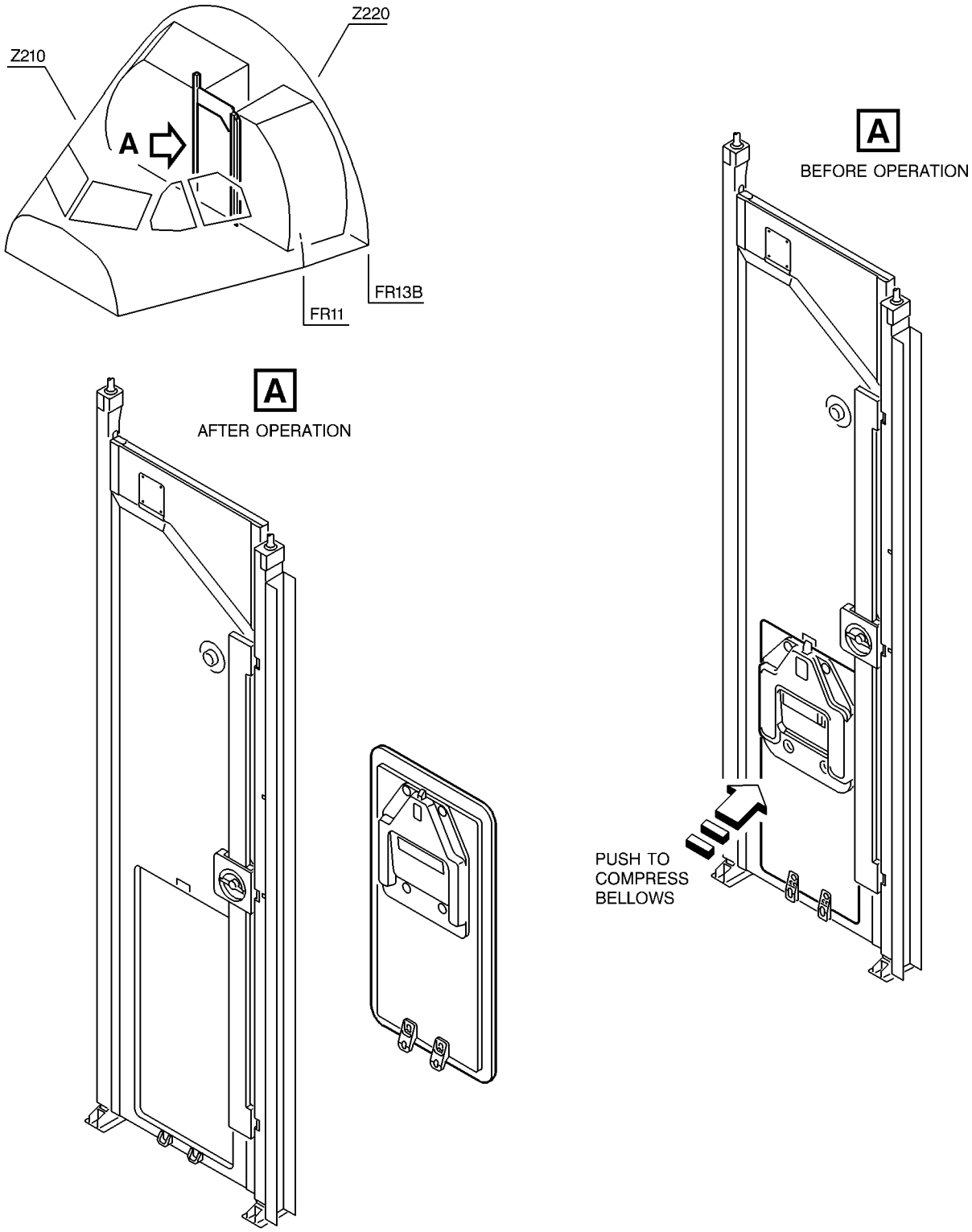



Overpressure Valve
Figure 006

R




Cockpit Door - Evacuation and Decompression Panel
Figure 007




Cockpit-Door Decompression Panel - Operation
Figure 008

R

## 1. Operational Check of Decompression Flap Release Mechanism

A. Reason for the Job
(1) Operational Check of Decompression Flap Release Mechanism

B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400Hz |
| Referenced Procedures<br>- 24-41-00, P. Block 301 | AC External Power Control |

C. Procedure
(Ref. Fig. 501)
(1)Job Set-Up
(a)Connect the electrical ground power unit and energize the aircraft external network (Ref. 24-41-00, P. Block 301).
(b)Make certain that the electronic racks ventilation is correct.
(c)Preparation
-close the cockpit door (1).
-on the evacuation and decompression panel (2), loosen the screws (4).
-carefully move the cover (5) in the flight direction.

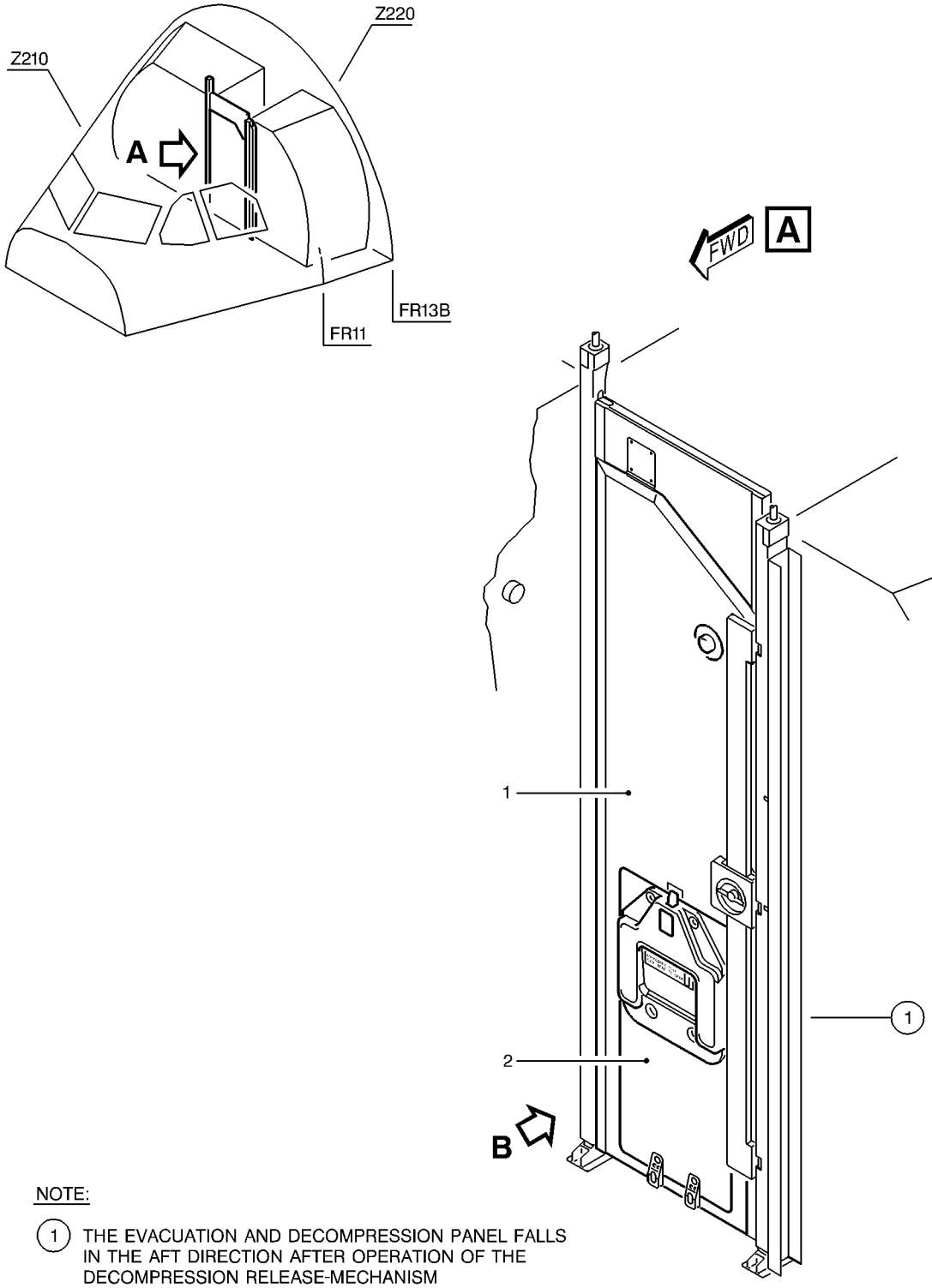
NOTE : Collect the two spacers (6) when you remove the bottom screws (4).

-Remove the screws (4), the washers (3), the spacers (6) and the cover (5).
(d)Operational Test of the Evacuation and Decompression Panel

NOTE : Two persons are necessary to do this test. One person must be in the cockpit to operate the decompression-panel latch mechanism. The other person must be at the passenger compartment side of the cockpit door to catch the decompression panel after its operation.

| ACTION | RESULT |
|---|---|
| 1. At the cockpit side of the door:<br>- push the fiber plate (7) to compress the bellows (8). | At the cockpit side of the door:<br>- the bellows (8) compress<br>- the latch mechanism (9) retracts<br>- the evacuation and decompression panel (2) falls into the passenger compartment. |

(e)Install the evacuation and decompression panel (2):

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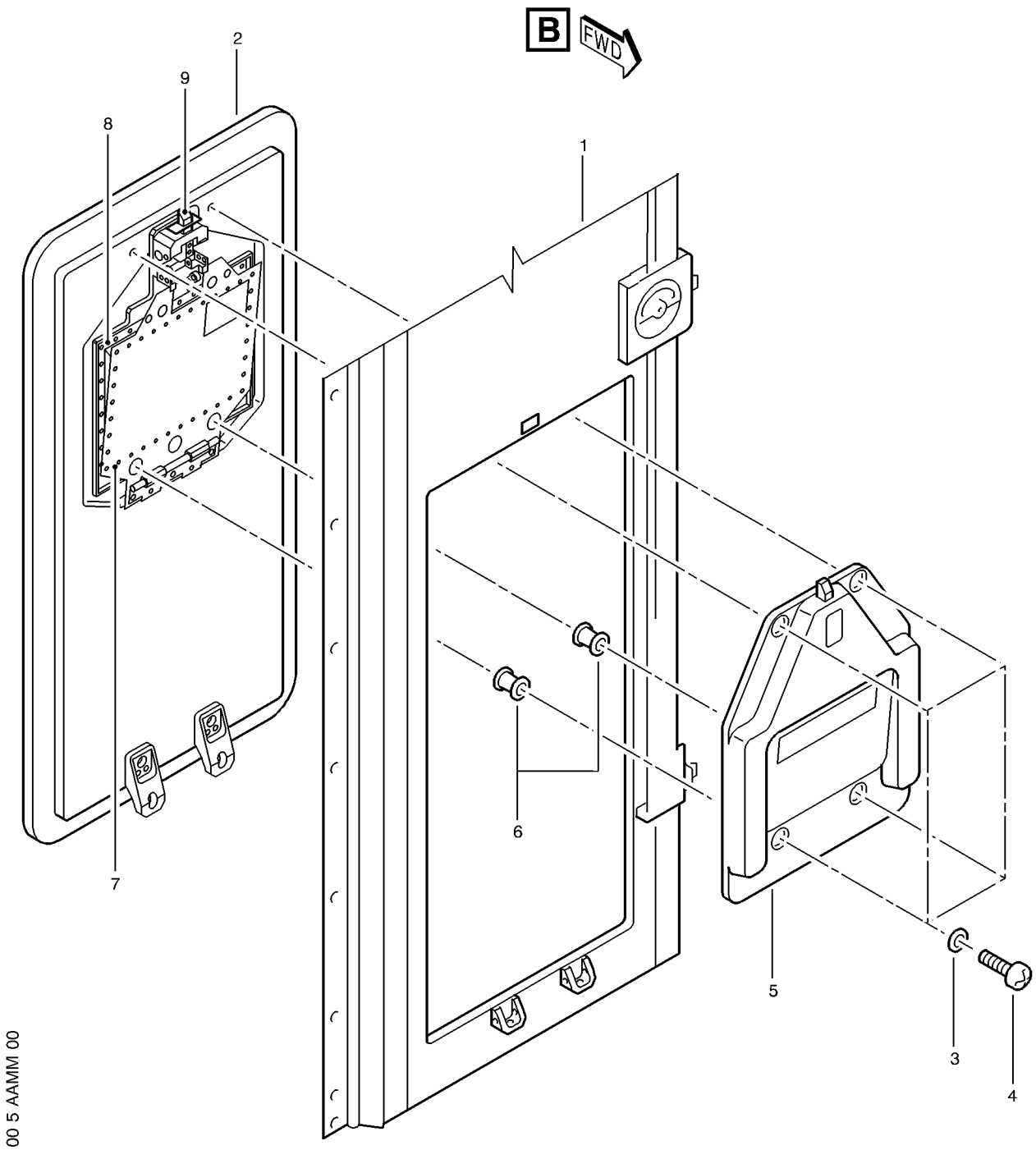
NOTE:

(1) THE EVACUATION AND DECOMPRESSION PANEL FALLS IN THE AFT DIRECTION AFTER OPERATION OF THE DECOMPRESSION RELEASE-MECHANISM

Evacuation and Decompression-Panel
Sheet 1/2
Figure 501

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Evacuation and Decompression-Panel
Sheet 2/2
Figure 501

-Put the evacuation and decompression panel (2) into the correct position in the hole in the cockpit door (1).
-Push the evacuation and decompression panel (2) to the cockpit door (1).
-Make sure that the latch mechanism (9) correctly engages at the cockpit door (1).

(f)Install the cover (5):
-Put the bottom screws (4), the washers (3) and spacers (6) in position at the cover (5).
-Carefully position the cover (5) on the decompression release mechanism and install the bottom screws (4), the washers (3) and the spacers (6).
-Install the top screws (4) and the washers (3).

(g)Close-Up
-De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).

R 2. Operational Check of Decompression Flap Release Mechanism (Manual Opening)

R A. Reason for the Job
(1) Operational Check of Decompression Flap Release Mechanism (Manual Opening)

R B. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Slotted Screwdriver |

R C. Procedure

R NOTE : Two persons are necessary to do this test. One person must be in the cockpit to operate the decompression-panel latch mechanism. The other person must be at the passenger compartment side of the cockpit door to catch the decompression panel after its operation.

R (1)Job set-up
R (a)Open the cover.
R (b)Push the handle on the air cylinder inwards and turn it clockwise until the end position is reached.
R (c)Make sure that the indicatior shows RED.
R (2)Operational Check of Flap Release Mechanism (Manual Opening)
R (a)At the cockpit side of the door:
R -Push the escape panel until it falls into the passenger compartment.
R (3)Close-up
R (a)Install the panel in its normal position.
R (b)Reset the latches to the LOCKED position with a srewdriver.
R (c)Make sure that the panel is in correct position.
R (d)Turn the handle back counter-clockwise until its end position is reached.
R (e)Release the handle.

R (f)Make sure that the handle on the air cylinder is in normal position.
R (g)Make sure that the indicator shows **GREEN**.
R (h)Close the cover.

R 3. General Visual Inspection of the Air Cylinder of the Decompression Panel

R A. Reason for the Job
(1) General Visual Insepection of the Air Cylinder of the Decompresson Panel.

R B. Procedure
R (1)Set-up
R (a)Open the cover.
R (2)General Visual Inspection of the Air Cylinder
R (a)Make sure that the air cylinder is not blocked.
R (b)Make sure that the air cylinder is not damaged on its surface.
R (3)Close-up
R (a)Close the cover.

1. Reason for the Job

Detailed Inspection of Flap Bellow Decompression Flap

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (1) | Electrical Ground Power Unit - 3-Phase, 115/200 V, 400Hz |
| Referenced Procedures<br>- 24-41-00, P. Block 301 | AC External Power Control |

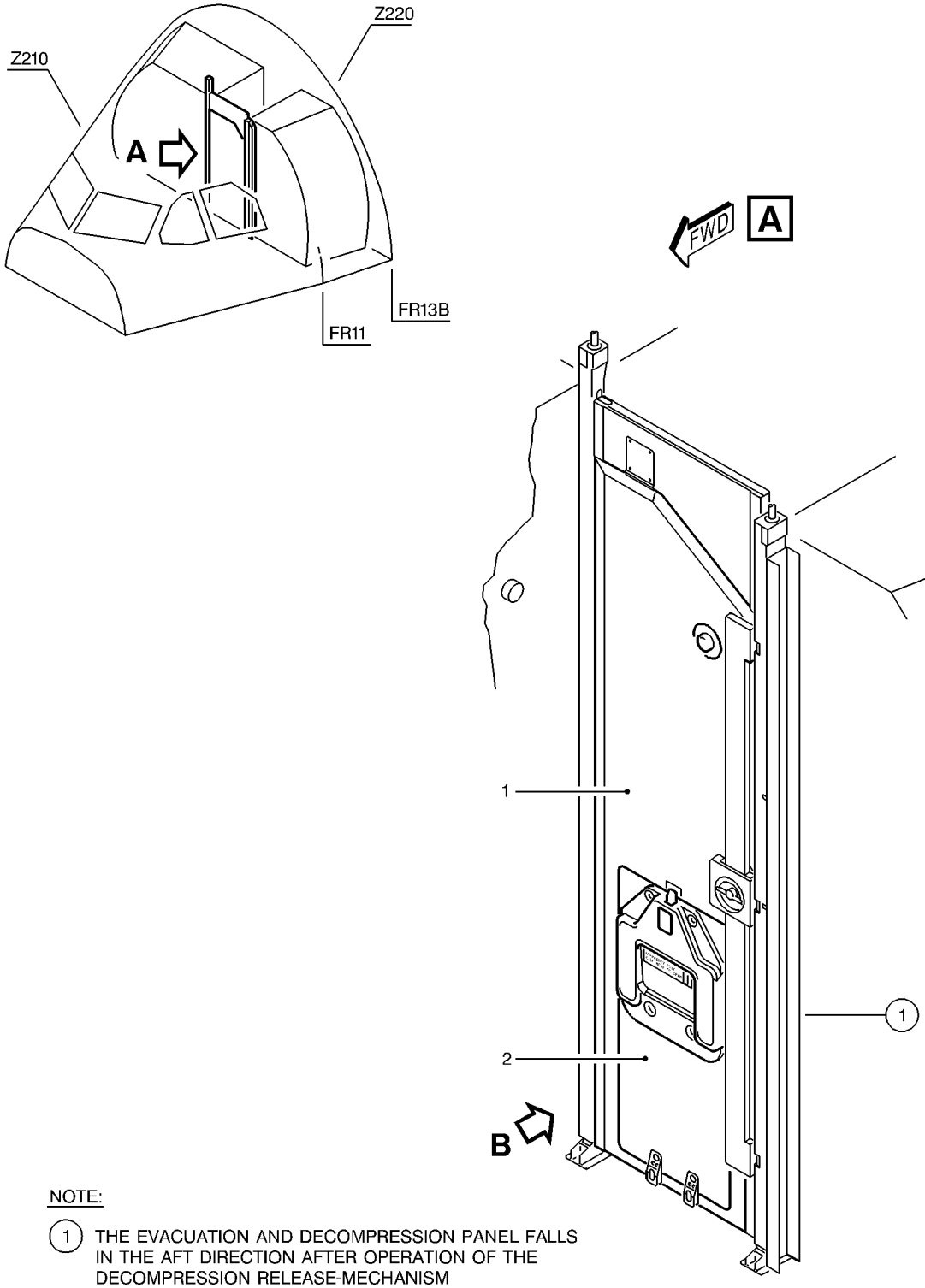
3. Procedure
(Ref. Fig. 601)

A. Job Set-Up
(1)Connect the electrical ground power unit and energize the aircraft external network (Ref. 24-41-00, P. Block 301).
(2)Make certain that the electronic racks ventilation is correct.
(3)Remove the cover (5):
(a)Close the cockpit door (1).
(b)Loosen the screws (4) and carefully move the cover (5) in the flight direction.

NOTE : Collect the two spacers (6) when you remove the bottom screws (4).

(c)Remove the screws (4), the washers (3), the spacers (6) and the cover (5).
(4)Do an inspection of the Decompression Release Mechanism DRM (9):
(a)Do an inspection of the cover (5) for cracks, holes or other damage.
(b)If the cover (5) has cracks, holes or other damage, replace it.
(c)Do an inspection of the fiber plate and bellows of the DRM (9) for cracks, holes, tears, wear or other damage.
(d)If the DRM (9) has cracks, holes, tears, wear or other damage, replace it.
(e)Do an inspection of the lounge block fittings (8) for cracks, wear, corrosion or other damage.
(f)If the hinge block fittings (8) have damage, replace them.
(g)Do an inspection of the hinge blocks (7) for cracks, wear, corrosion or other damage.
(h)If the hinge blocks (7) have damage, replace them.

(5)Install the cover (5):
(a)Put the bottom screws (4), the washers (3) and spacers (6) in position at the cover (5).
(b)Carefully position the cover (5) on the DRM (9) and install the

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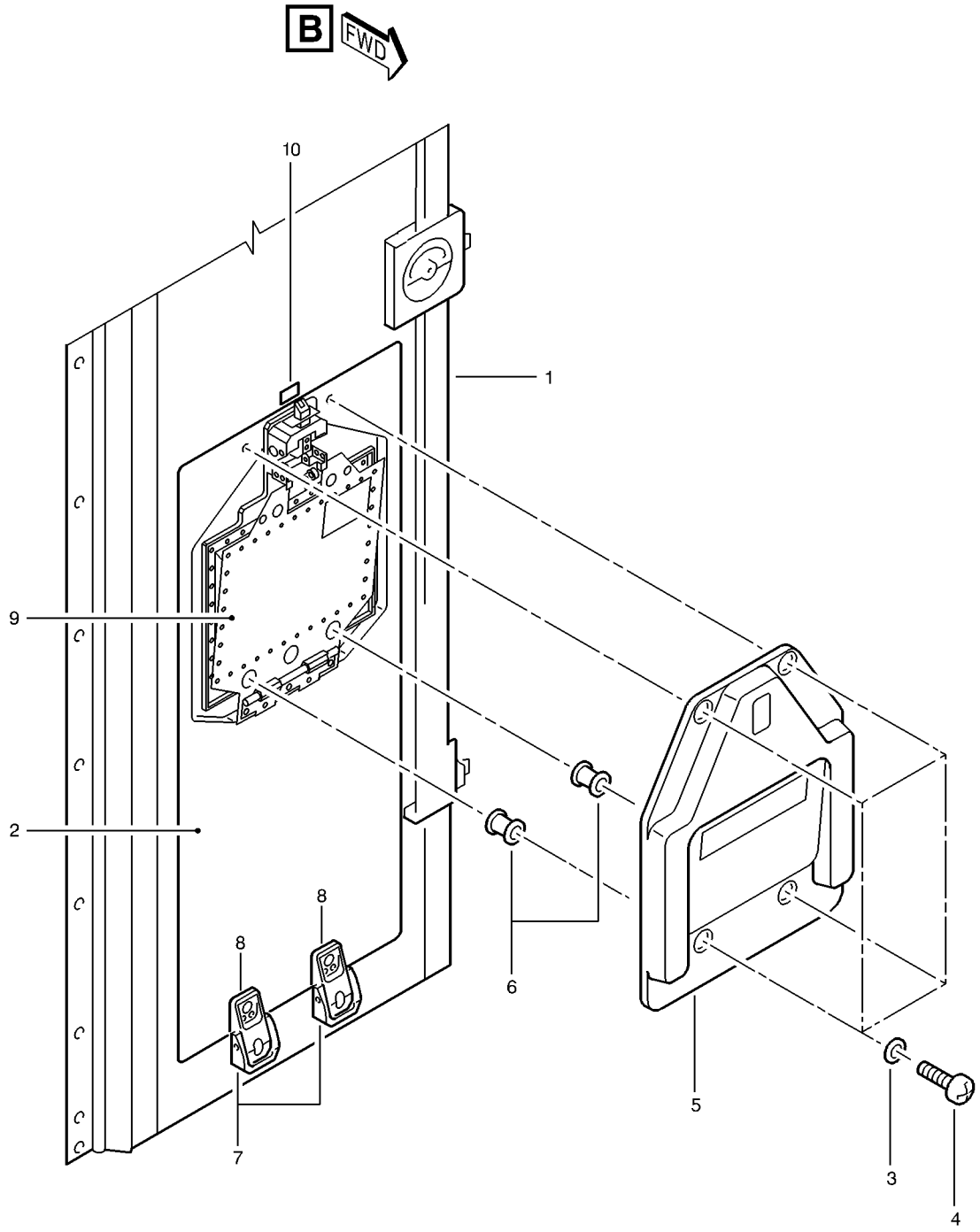
NOTE:

(1) THE EVACUATION AND DECOMPRESSION PANEL FALLS IN THE AFT DIRECTION AFTER OPERATION OF THE DECOMPRESSION RELEASE MECHANISM

Evacuation and Decompression-Panel Assembly
Sheet 1/2
Figure 601

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Evacuation and Decompression-Panel Assembly
Sheet 2/2
Figure 601

bottom screws (4), the washers (3) and the spacers (6).

(c) Install the top screws (4) and the washers (3).

(7) Close-Up

(a) De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).

WARNING : MAKE CERTAIN THAT PANELS FUNCTION CORRECTLY. MALFUNCTIONING PANELS MUST BE REPLACED.

NOTE : For repair of decompression panels (Ref. 25-00-00, P. Block 801).

1. Reason for the Job

A. Visual Check of Decompression Panels

B. Operational Test of Decompression Panels

C. Removal and Installation of Decompression Panel Assembly

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 4.5 m (14 ft. 9 in.) |

Referenced Procedures

| | |
|---|---|
| - 25-00-00, P. Block 801 | Equipment and Furnishings |
| - 25-21-00, P. Block 401 | Passenger Compartment Seats |
| R - 25-23-31, P. Block 401 | Lower Sidewall Panels |
| - 52-10-00, P. Block 1 | Passenger/Crew Doors |

3. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Open FWD passenger/crew door (Ref. 52-10-00, P. Block 1).
(3)Remove passenger seats to gain access to decompression panels (Ref. 25-21-00, P. Block 401).

B. Visual Check of Decompression Panels
(1)Check that decompression panels are correctly inserted into the Dado panels.
(2)Check decompression panels for security of attachment.
(3)If any decompression panels are found to be deformed or cracked, check decompression panels adjacent to faulty panel.

C. Operational Test of Decompression Panels
R (Ref. Fig. 201)

R WARNING : DO NOT OPEN THE DECOMPRESSION PANELS WITH YOUR HANDS. USE A
R NON-METALLIC, BLUNT ROD. THE DECOMPRESSION PANEL HAS RETURN
R SPRINGS THAT CAN CAUSE INJURY TO PERSONS.

R NOTE : Test at least one decompression panel in each of the following
R zones:
R - 231, 232

R - 241, 242
R - 251, 252.

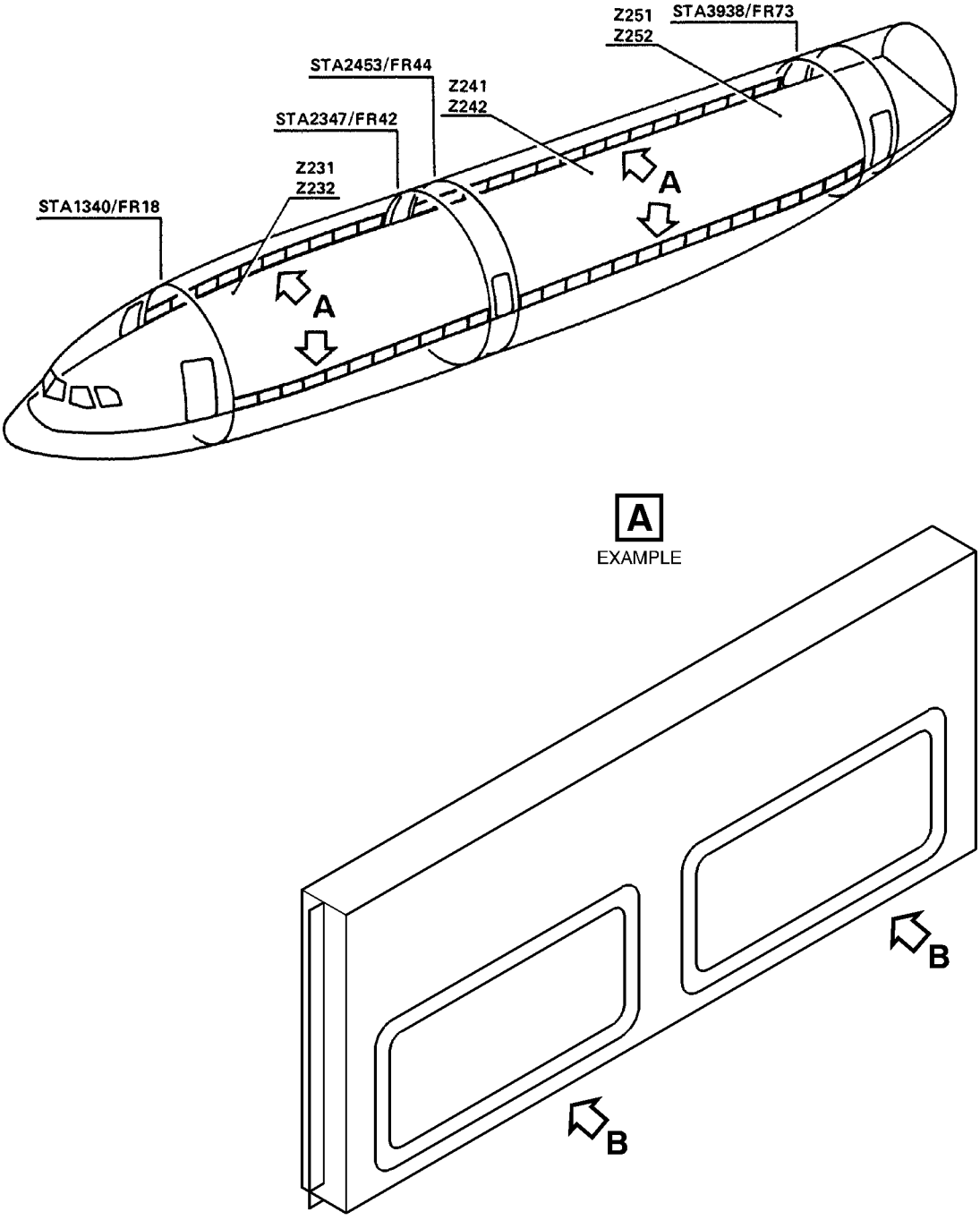
R Give special attention to decompression panels installed adjacent
R to passenger/crew doors and emergency exits.

R (1)Open the cabin rapid-decompression panel-assembly (1)
R (a)Put your fingers in the bottom opening of the cabin rapid-decom-
R pression panel-assembly (1).
R (b)Push the pivots (2) up and release the split decompression-plate
R (3) from the hook (5).
R (c)Make sure that the split decompression-panel (3) and the connected
R decor panel (4) move freely outboard to the open position.
R (2)Close the cabin rapid-decompression-panel assembly (1)
R (a)Move the split decompression-panel (3) and the connected decor
R panel (4) inboard to the closed position.
R (b)Make sure that the split decompression-plate (3) locks on the hook
R (5) and engages fully in its position.
(Ref. Fig. 201)
R (Ref. Fig. 201)
(Ref. Fig. 202)

R D. Removal of Decompression Panel Assembly
R (Ref. Fig. 202)
R (1)Remove the applicable dado panel (7) (Ref. 25-23-31, P. Block 401).
R (2)Carefully disconnect the springs from the applicable decompression
R panel assembly (1).
R (3)Remove the nuts (4), washers (5) and screws (6).
R (4)Remove the applicable decompression panel assembly (1) from the dado
R panel (7).

R E. Installation of the Decompression Panel Assembly
R (Ref. Fig. 202)
R (1)Put the applicable decompression panel assembly (1) in the correct
R position in the applicable dado panel (7).
R (2)Install the screws (6), washers (5) and nuts (4).
R (3)Install the springs (3) to the applicable decompression panel
R assembly (1).
R (4)Install the applicable dado panel (7) (Ref. 25-23-31, P. Block 401).

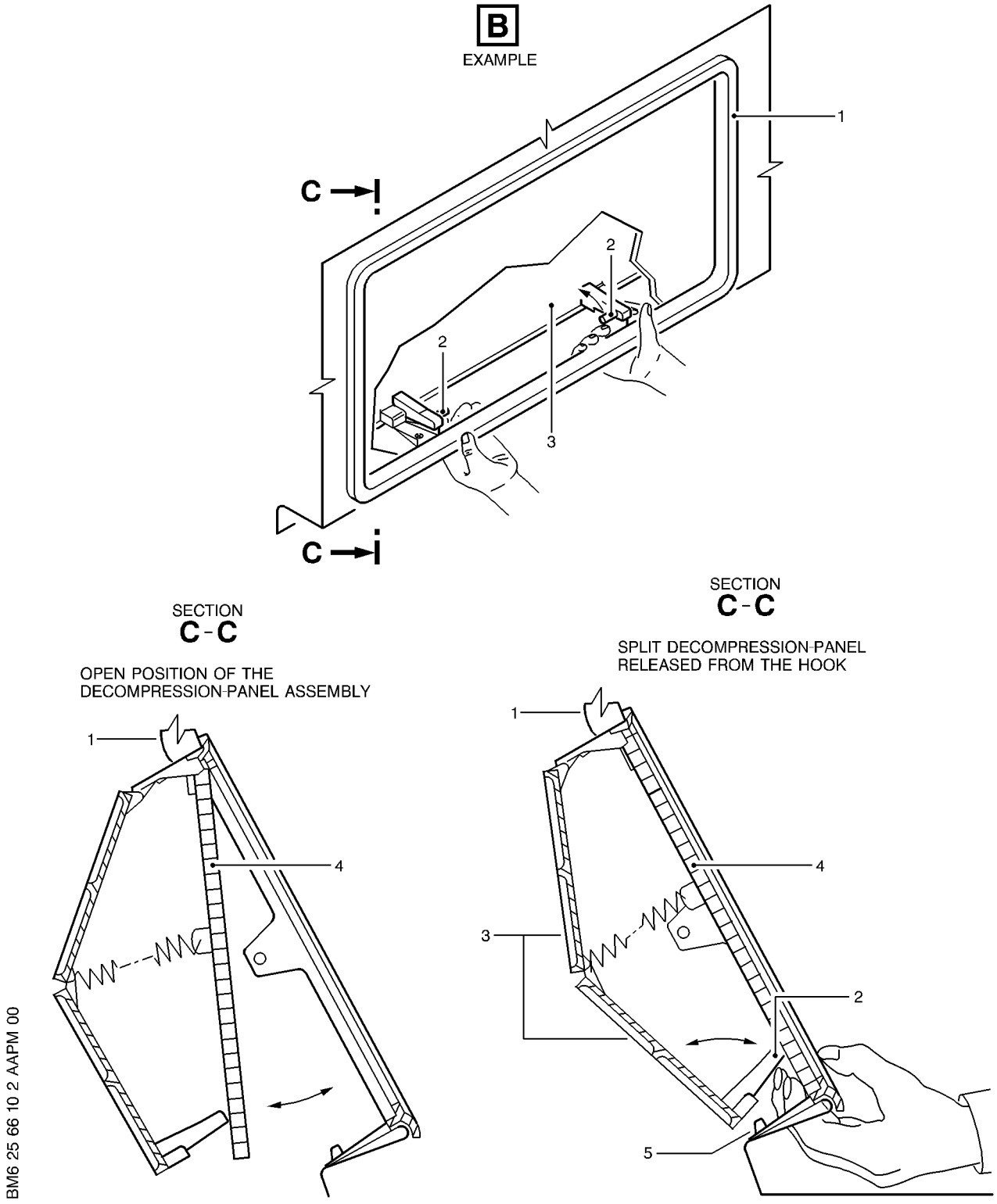
R F. Close-Up
R (1)Install passenger seats (Ref. 25-21-00, P. Block 401).
R (2)Make certain that work area is clean and clear of tools and
R miscellaneous items of equipment.
R (3)Close FWD passenger/crew door (Ref. 52-10-00, P. Block 1).
R (4)Remove access platform.




BM6 25 66 10 2 AAPA 00

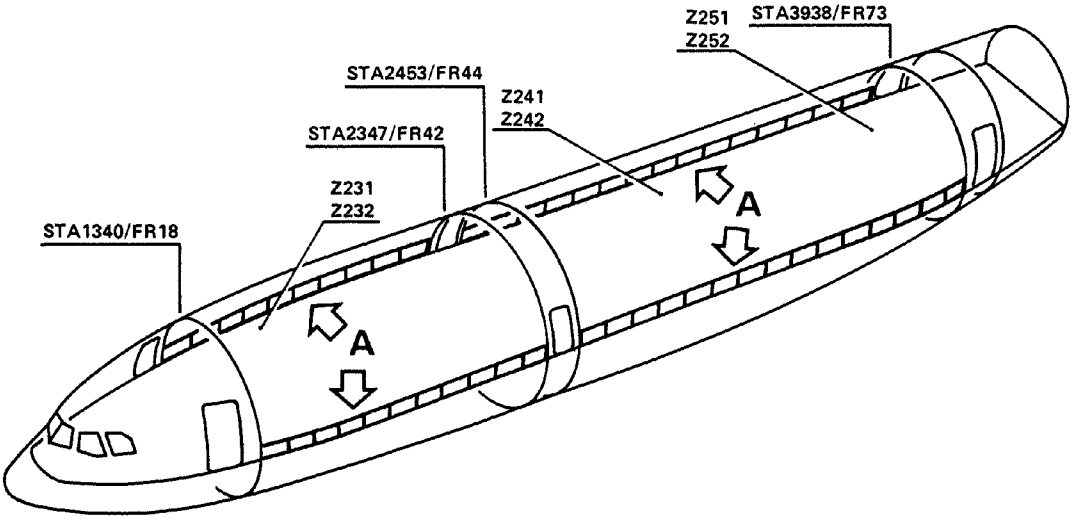
Operational Test of Decompression Panels
Sheet 1 of 2
Figure 201

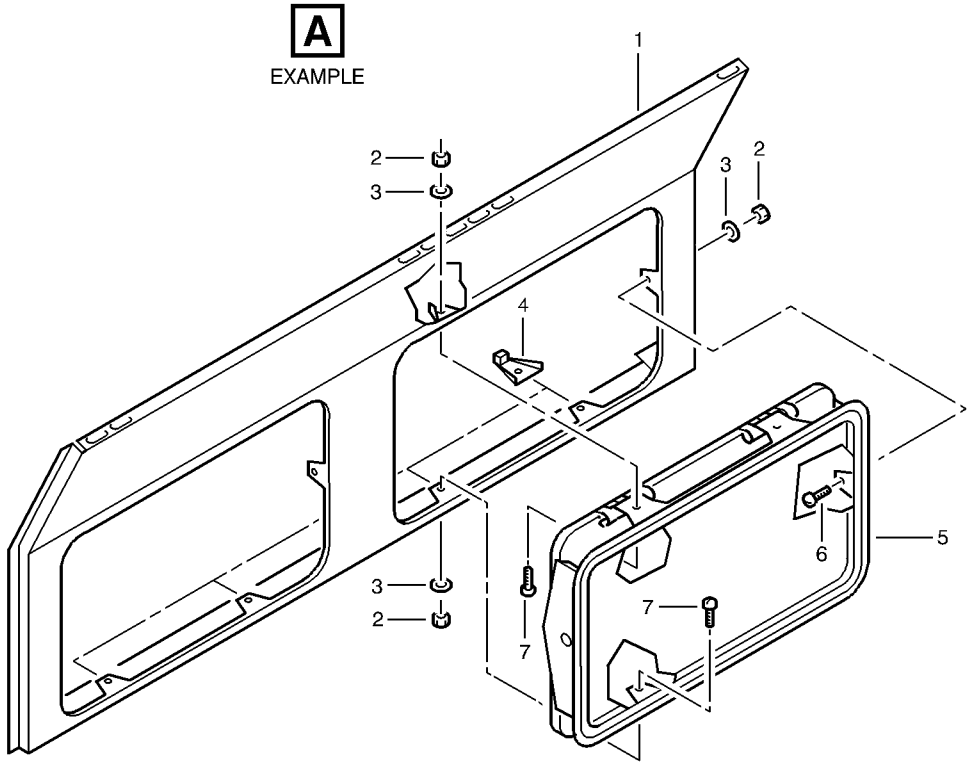
R




Operational Test of Decompression Panels
Sheet 2 of 2
Figure 201

R




BM6 25 66 10 2 ACP0 00

Decompression Panel Assembly
Figure 202

R

NOTE : For repair of decompression panels (Ref. 25-00-00, P. Block 801).

1. Reason for the Job

A. Visual Check of Decompression Panels

B. Resecuring Decompression Panels in:
(1)Avionics compartment partition panels FR20
(2)End panel
(3)Side wall panel
(4)Partition FR38.2

WARNING : IF PANELS ARE MISSING FROM THE CUT-OUTS OR CAN NO LONGER BE SECURED AS DESCRIBED IN THIS PROCEDURE PRIOR TO THE FLIGHT, NEITHER NON-METALLIC NOR INFLAMMABLE MATERIAL MUST BE CONVEYED IN THE CARGO COMPARTMENT.

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.7 m (9 ft.) |
| B. | Torque Wrench up to 0.9 m.N (7.97 lbf.in.) |
| C. | Warning Notice Prohibiting Operation of Cargo Loading System |
| D. | Cleaning Cloths |
| E. Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| F. Material No. 08-038 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| G. Material No. 11-002 | Cleaning Agents (Ref. 20-31-00) |

Referenced Procedures

| | |
|---|---|
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 25-00-00, P. Block 801 | Equipment and Furnishings |

3. Procedure

A. Job Set-Up
(1)Position access platform.
(2)Display warning notice prohibiting operation of cargo loading system on cargo loading system control panel.
(3)Open FWD cargo compartment door (Ref. 52-30-00, P. Block 1) and install door actuator safety lock on FWD cargo compartment door actuator (Ref. 52-30-00, P. Block 301).

B. Visual Check of Decompression Panels

CAUTION : BE CAREFUL WHEN YOU INSPECT/REPLACE THE SEALING OF THE CARGO

COMPARTMENT DECOMPRESSION PANELS.
MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED.
PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE OCCURS.

(1)Check that decompression panels are correctly inserted into the partition and sidewall panel cutouts.
(2)Check decompression panels for security of attachment.
(3)Check decompression panels for deformation and cracks.
(4)Do an inspection of the sealing strips at the decompression panels.
(5)Make sure that:
- there are no gaps between the sealing strips,
- the sealing strips are well bonded at the decompression panels,
- the sealing strips are flexible,
- the sealing strips have the same thickness per decompression panel,
- the surface of the sealing strips is not fractional,
- no sealing strips are missing or damaged.

Renew or install sealing strips as necessary.
(6)Make sure that for the sealing strips Material No. 08-005A and not 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.

C. Resecure Decompression Panels

**ON A/C 001-005, 101-200,

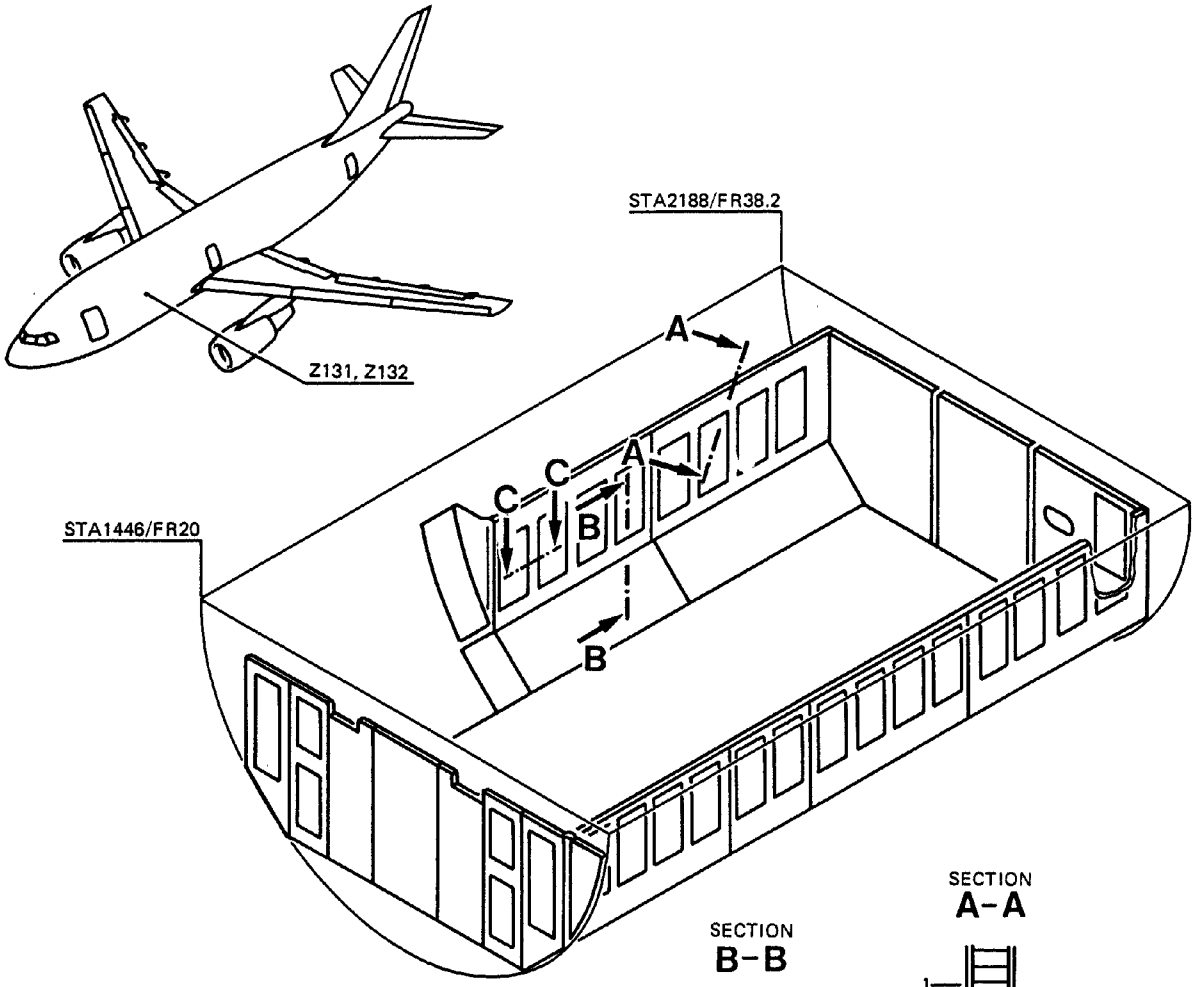
(Ref. Fig. 201)

**ON A/C 006-100,

(Ref. Fig. 202)

**ON A/C ALL

(1)Remove the appropriate decompression panel (4) as follows:
(a)Release the quick-connect fasteners of the related partition (1).
(b)Remove the partition (1) to gain access to the catch assy (9) of the decompression panel (4).
(c)Slide the catch assy (9) inwards to release the decompression panel (4).
(d)With even pressure on the whole decompression panel (4), carefully push it out of the partition (1).
(2)Remove existing sealing strip (2) (Material No. 08-005A) from decompression panel (4).
(3)Clean contact area with cleaning agent (Material No. 11-002).
(4)Affix new sealing strip (2) (Material No. 08-005A) to decompression panel (4).
(5)If a catch assy (9) is defective, remove screw (11) and washer (12).
(6)If removed, position new catch assy (9), install washer (12) and screw (11).
(7)TORQUE screw (11) to 0.9 ±0.1 m.N (7.97 ±0.885 lbf.in.).

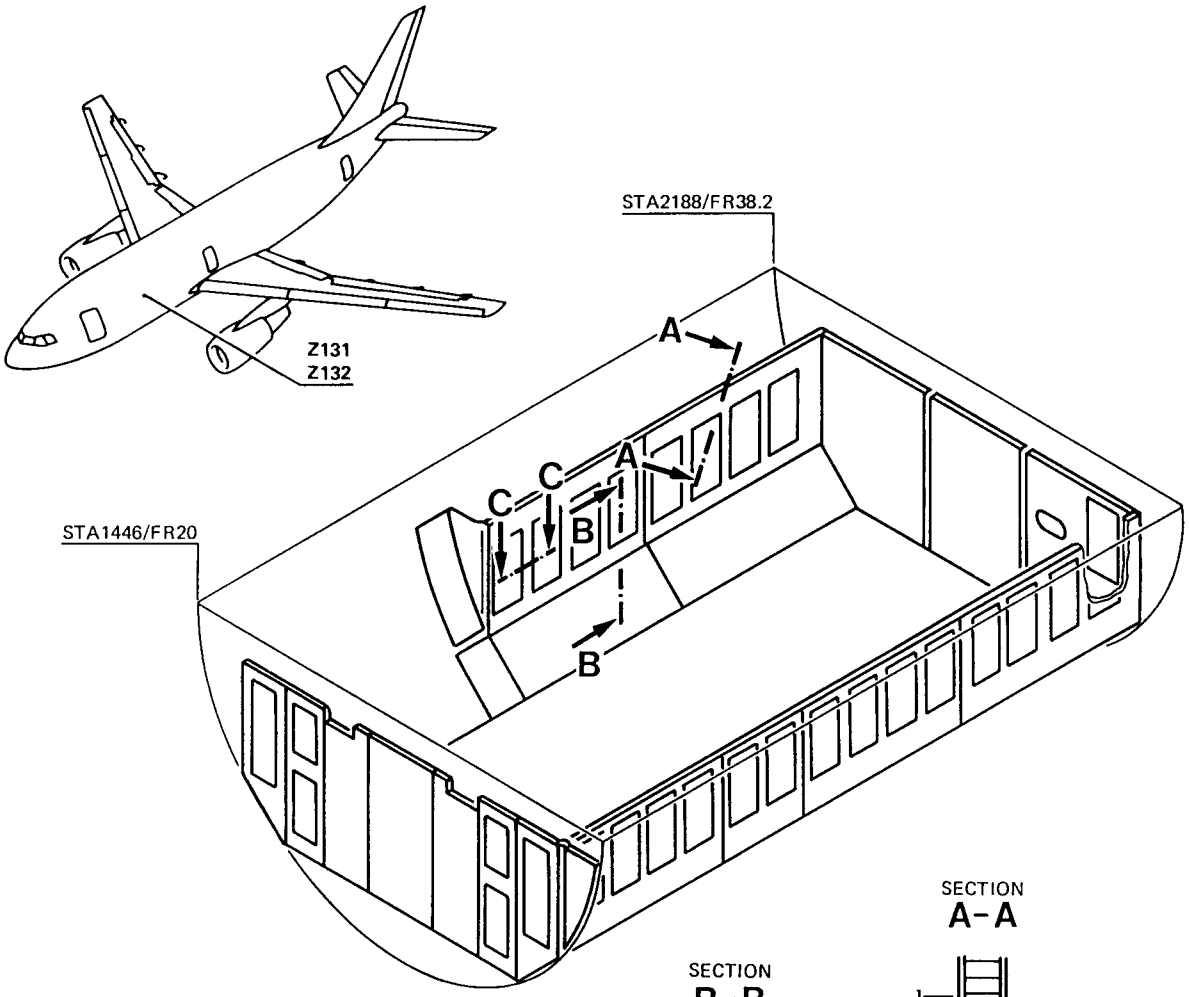



| ITEM | MATERIAL N0. 08-005A | DIMEMSION mm | DIMEMSION in. |
|---|---|---|---|
| 2 | SEALING STRIP | 9.0 x 4.0 | 0.354 x 0.157 |

BM6 25 66 20 2 AAM0 01

FWD Cargo Compartment - Decompression Panel - Typical
Figure 201

R




| ITEM | MATERIAL N0. 08-005A | DIMEMSION mm | DIMEMSION in. |
|---|---|---|---|
| 2 | SEALING STRIP | 9.0 x 4.0 | 0.354 x 0.157 |

BM6 25 66 20 2 AAU0 01

FWD Cargo Compartment - Decompression Panel - Typical
Figure 202

R

(8)If a shim (8) is defective, remove screw (6), washer (5) and nut (7).
(9)If removed, position new shim (8), washer (5), screw (6) and nut (7) and tighten.
(10)If adhesive tape (3) (Material No. 08-038) is detached at the corners of decompression panel (4), clean areas and renew adhesive tape (3) (Material No. 08-038).
(11)Locate decompression panel (4) in partition (1) and press firmly into position.

D. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Remove warning notice from cargo loading system control panel.
(3)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301) and close FWD cargo compartment door (Ref. 52-30-00, P. Block 1).
(4)Remove access platform.

## AFT AND BULK CARGO COMPARTMENT DECOMPRESSION PANELS - MAINTENANCE PRACTICES

WARNING : IF DECOMPRESSION PANELS ARE MISSING IN THE CUT-OUTS OR CAN NO LONGER BE SECURED AS DESCRIBED IN THIS PROCEDURE PRIOR TO FLIGHT, FLAMMABLE AND NON METALLIC MATERIALS MUST NOT BE TRANSPORTED IN THE APPLICABLE CARGO COMPARTMENT.

NOTE : For repair of decompression panels (Ref. 25-00-00, P. Block 801).

1. Reasons for the Job

A. Visual Check of Decompression Panels

**ON A/C 001-005, 101-200,

B. Resecuring decompression panels in:
(1)Sidewall panels (4),(5) (AFT Cargo Compartment).
(2)Ceiling panels (1),(2) (AFT and BULK Cargo Compartment).
(3)Partition panels (3) FR70 (BULK Cargo Compartment).
(4)End panel (30) (BULK Cargo Compartment).

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.3 m (7.5 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |
| D. | Torque Wrench, 0.5 m.N (4.425 lbf.in.) |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-014 | Special Materials (Ref. 20-31-00) |
| R G. Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| H. Material No. 11-002 | Cleaning Agents (Ref. 20-31-00) |

**ON A/C 006-100,

B. Resecuring decompression panels in:
(1)Sidewall panels (AFT Cargo Compartment).
(2)Partition panels FR70 (BULK Cargo Compartment).
(3)End panel (BULK Cargo Compartment).

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform, 2.3 m (7.5 ft.) |
| B. | Warning Notice Prohibiting Operation of Cargo Loading System |
| C. | Circuit Breaker Safety Clips and Tags |

| ITEM | DESIGNATION |
|---|---|
| D. | Torque Wrench, 0.5 m.N (4.425 lbf.in.) |
| E. Material No. 05-002 | Special Materials (Ref. 20-31-00) |
| F. Material No. 05-014 | Special Materials (Ref. 20-31-00) |
| R G. Material No. 08-005A | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| H. Material No. 11-002 | Cleaning Agents (Ref. 20-31-00) |

**ON A/C ALL

Referenced Procedures

| | |
|---|---|
| - 52-30-00, P. Block 1 | Cargo Compartment Doors |
| - 52-30-00, P. Block 301 | FWD and AFT Cargo Compartment Doors |
| - 25-00-00, P. Block 801 | Equipment and Furnishings |

3. Procedure

A. Job Set-Up
(1)Position access platforms at AFT and BULK cargo compartment doors.
(2)Open AFT cargo compartment door (Ref. 52-30-00, P. Block 1).
(3)Install door actuator safety lock to AFT cargo compartment door actuator (Ref. 52-30-00, P. Block 301).
(4)Display warning notice prohibiting operation of cargo loading system on cargo loading control panel.
(5)Open BULK cargo compartment door.

B. Visual Check of Decompression Panels

R CAUTION : BE CAREFUL WHEN YOU INSPECT/REPLACE THE SEALING OF THE CARGO
R COMPARTMENT DECOMPRESSION PANELS.
R MAKE SURE THAT THE CARGO COMPARTMENTS ARE CORRECTLY SEALED.
R PRESSURE LEAKS THROUGH THE CARGO COMPARTMENT CAN CAUSE A DECREASE
R IN THE PERFORMANCE OF THE FIRE EXTINGUISHING SYSTEM, IF A FIRE
R OCCURS.

**ON A/C 001-005, 101-200,

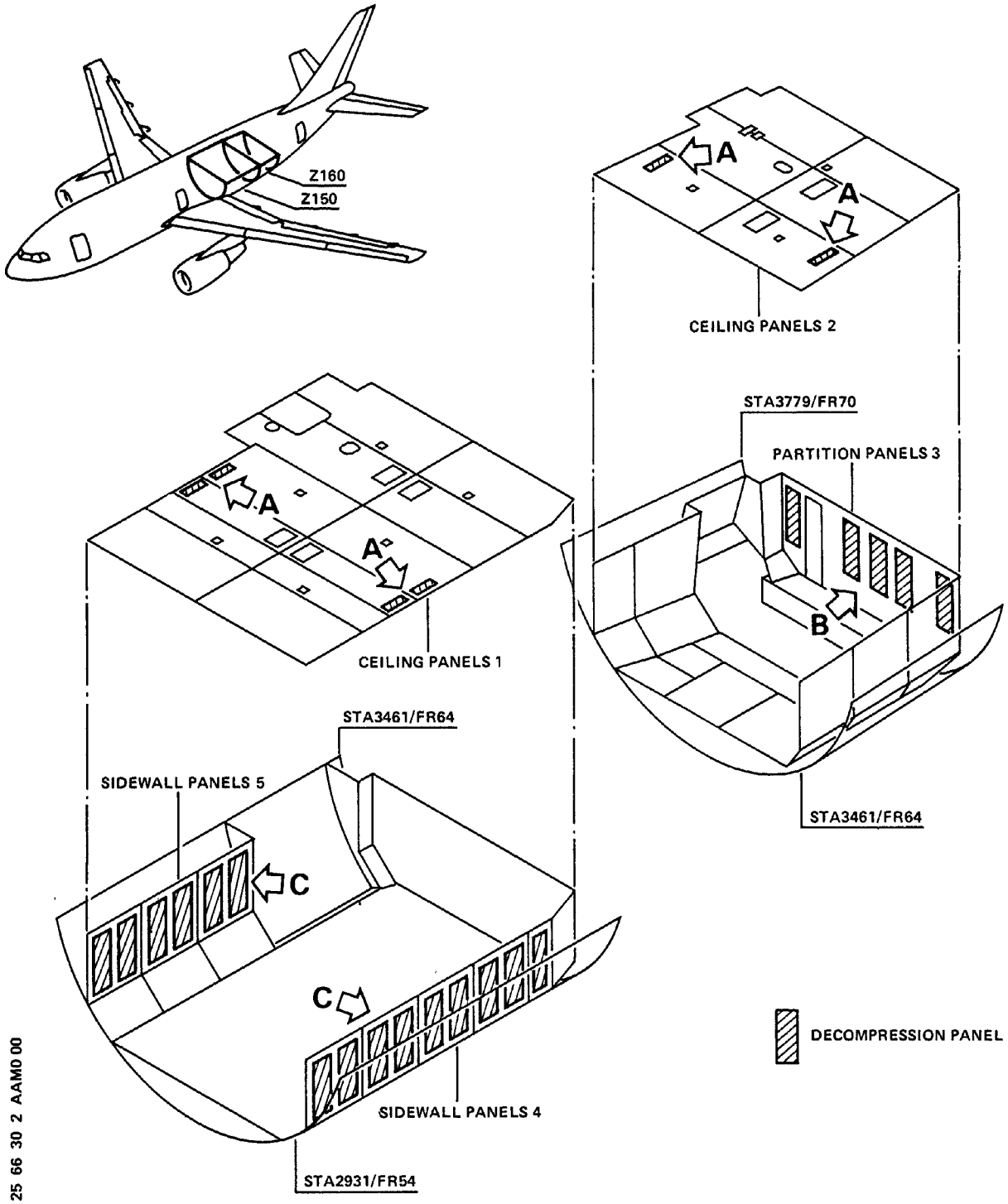
(Ref. Fig. 201)

**ON A/C 006-100,

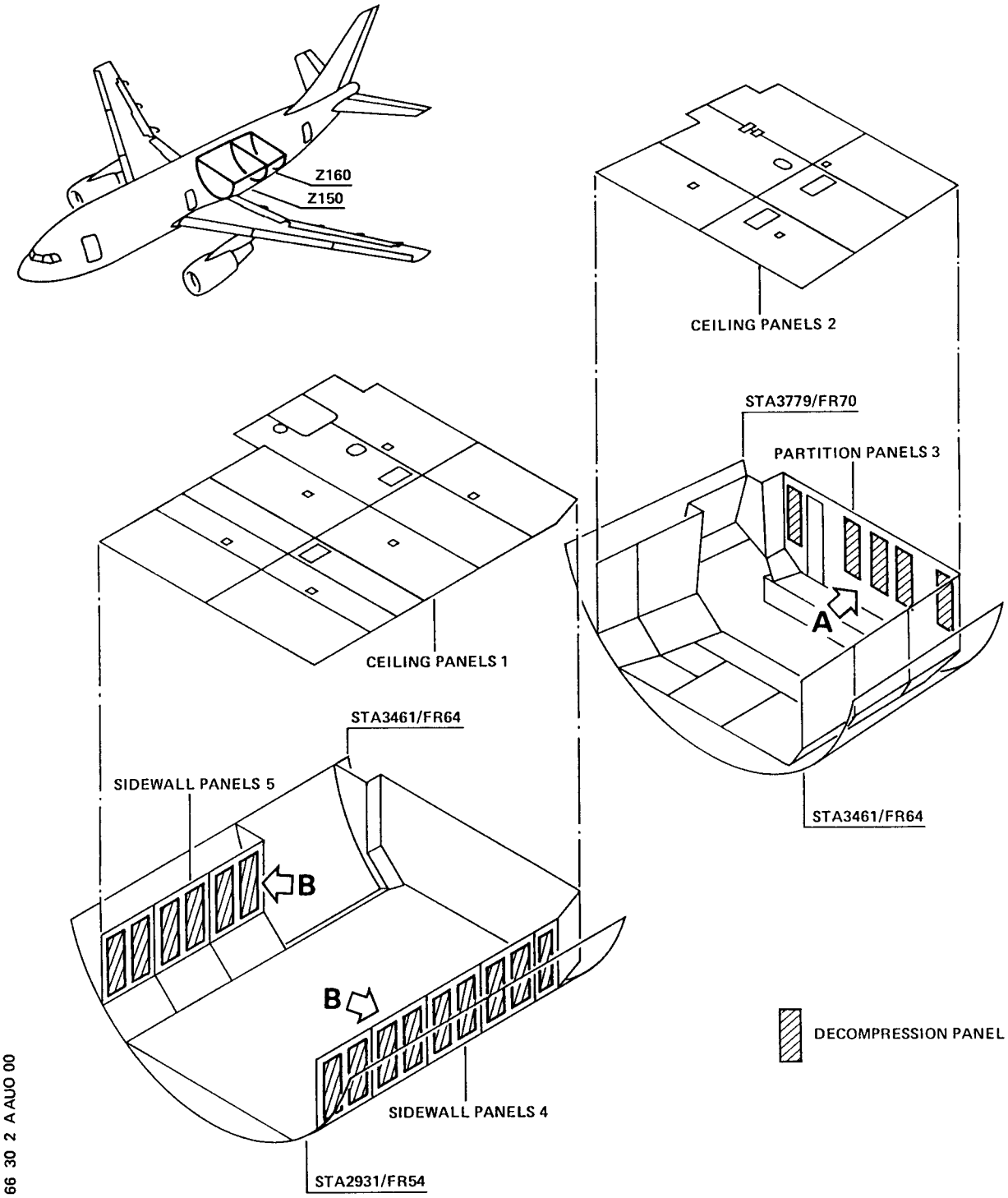
(Ref. Fig. 202)

**ON A/C 001-005, 101-200,

(Ref. Fig. 203)




Sidewall, Ceiling and Partition
Decompression Panels
Figure 201



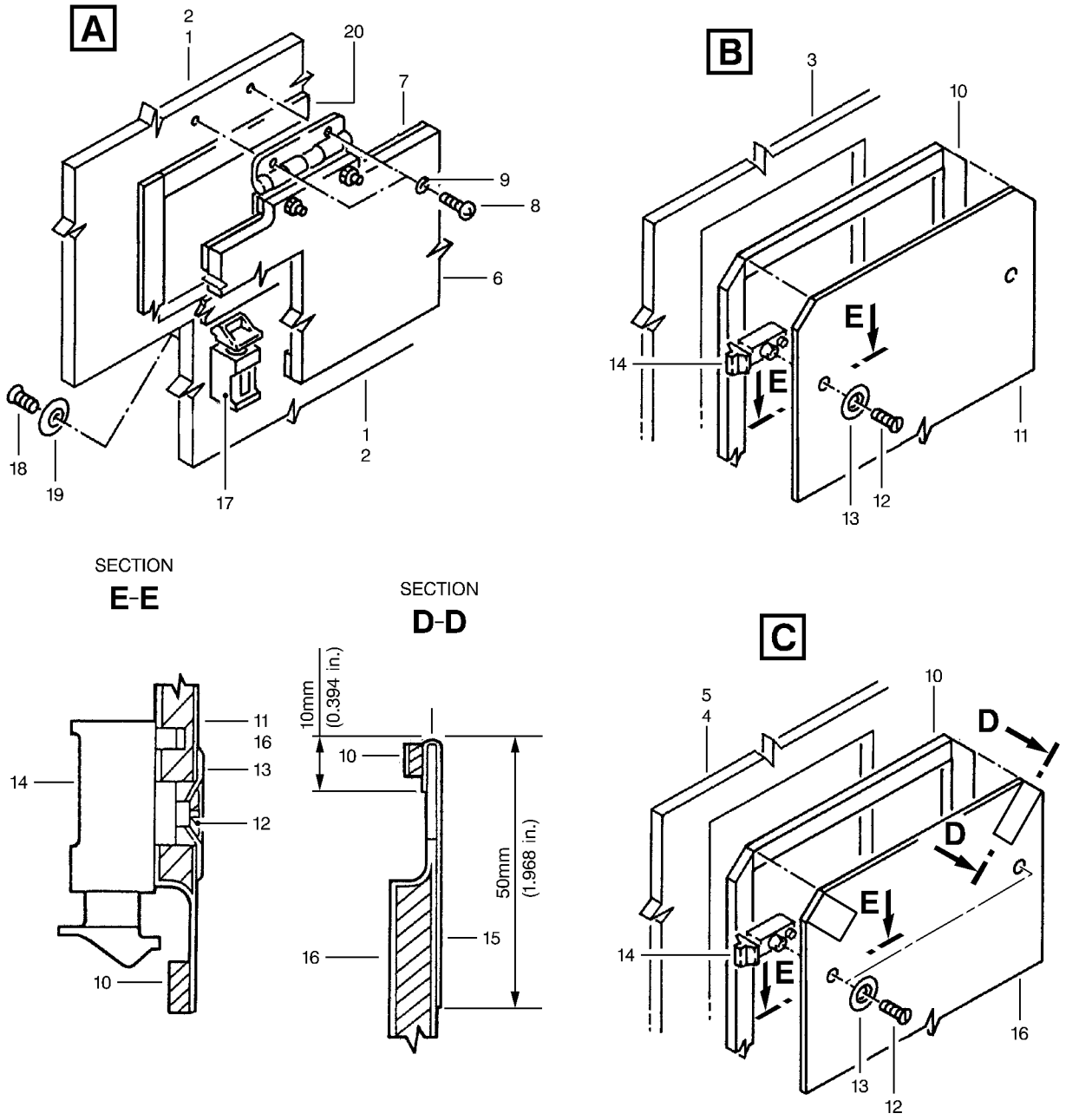

BM6 25 66 30 2 AAUO 00

Sidewall and Partition
Decompression Panels
Figure 202

R

R EFFECTIVITY: 006-100,

PIA




| ITEM | MATERIAL No 08-005A | DIMENSION mm | DIMENSION in. |
|---|---|---|---|
| 7 | SEALING STRIP | 9.0 x 2.0 | 0.354 x 0.079 |
| 20 | SEALING STRIP | 9.0 x 2.0 | 0.354 x 0.079 |
| 10 | SEALING STRIP | 9.0 x 4.0 | 0.354 x 0.157 |

NOTE: THE SECTIONS D-D AND E-E ARE SHOWN IN THE INSTALLED POSITION

BM6 25 66 30 2 ABM0 01

Sidewall, Ceiling and Partition
Decompression Panels - Details
Figure 203

R

**ON A/C 006-100,

(Ref. Fig. 204)

**ON A/C ALL

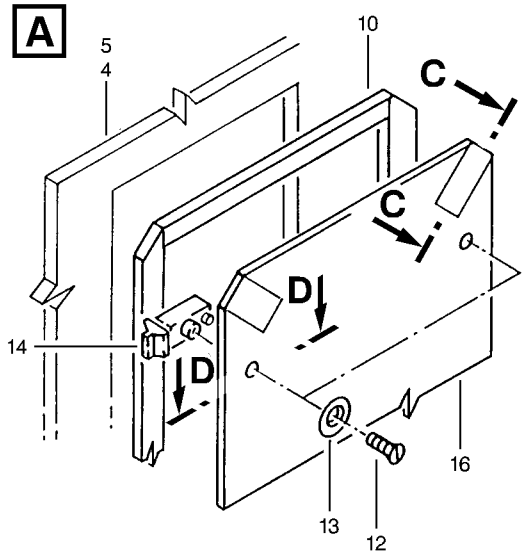
(Ref. Fig. 205)

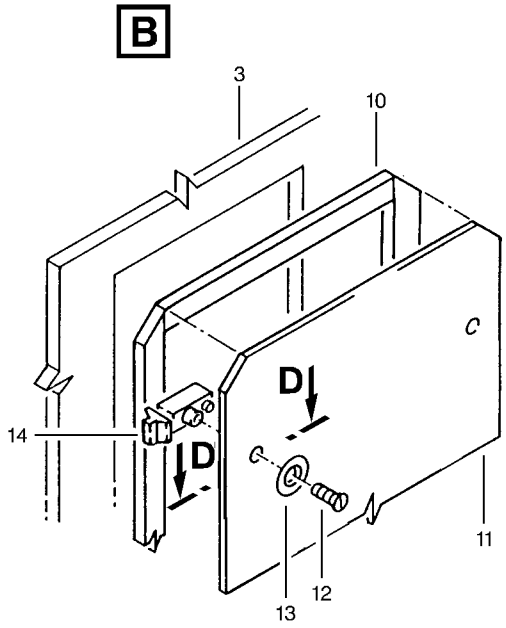
**ON A/C 001-005, 101-200,

(1)Check that decompression panels (11),(16) are correctly inserted into the partition panels (3) and the sidewall panel cutouts (4),(5).
(2)Check that decompression panels (6),(32) are correctly inserted into the ceiling panel (1) and the end panel cutouts (30).
(3)Check decompression panels (6),(11),(16),(32) for security of attachment.
(4)Check decompression panels (6),(11),(16),(32) for deformation and cracks.
(5)Check sealing strips (7),(10),(20),(31) around decompression panels (6),(11),(16),(32).
R (6)Make sure that:
R - there are no gaps between the sealing strips,
R - the sealing strips are well bonded at the decompression panels,
R - the sealing strips are flexible,
R - the sealing strips have the same thickness per decompression panel,
R - the surface of the sealing strips is not fractional,
R - no sealing strips are missing or damaged.
R Renew or install sealing strips as necessary.
R (7)Make sure that for the sealing strips Material No. 08-005A and not
R 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.

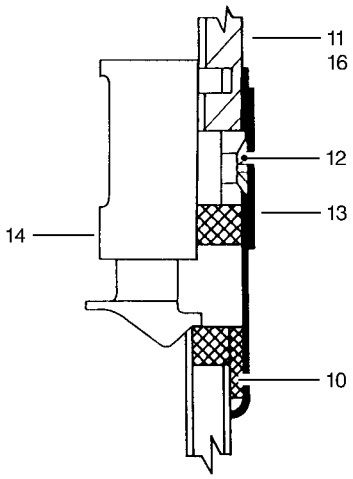
**ON A/C 006-100,

(1)Check that decompression panels (11),(16) are correctly inserted into the partition panels (3) and the sidewall panel cutouts (4),(5).
(2)Check decompression panels (11),(16),(32) for security of attachment.
(3)Check decompression panels (11),(16),(32) for deformation and cracks.
(4)Check sealing strips (10),(31) around decompression panels (11),(16),(32).
R (5)Make sure that:
R - there are no gaps between the sealing strips,
R - the sealing strips are well bonded at the decompression panels,
R - the sealing strips are flexible,
R - the sealing strips have the same thickness per decompression panel,
R - the surface of the sealing strips is not fractional,
R - no sealing strips are missing or damaged.
R Renew or install sealing strips as necessary.
R (6)Make sure that for the sealing strips Material No. 08-005A and not
R 08-005 is used. If necessary, replace Material No. 08-005 by 08-005A.

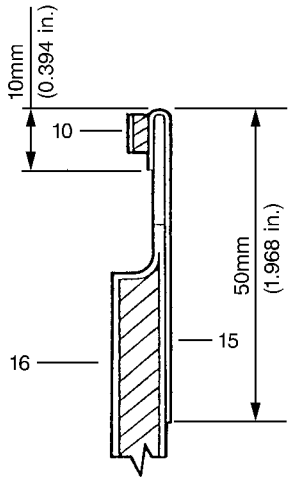



SECTION
**D-D**




SECTION
**C-C**

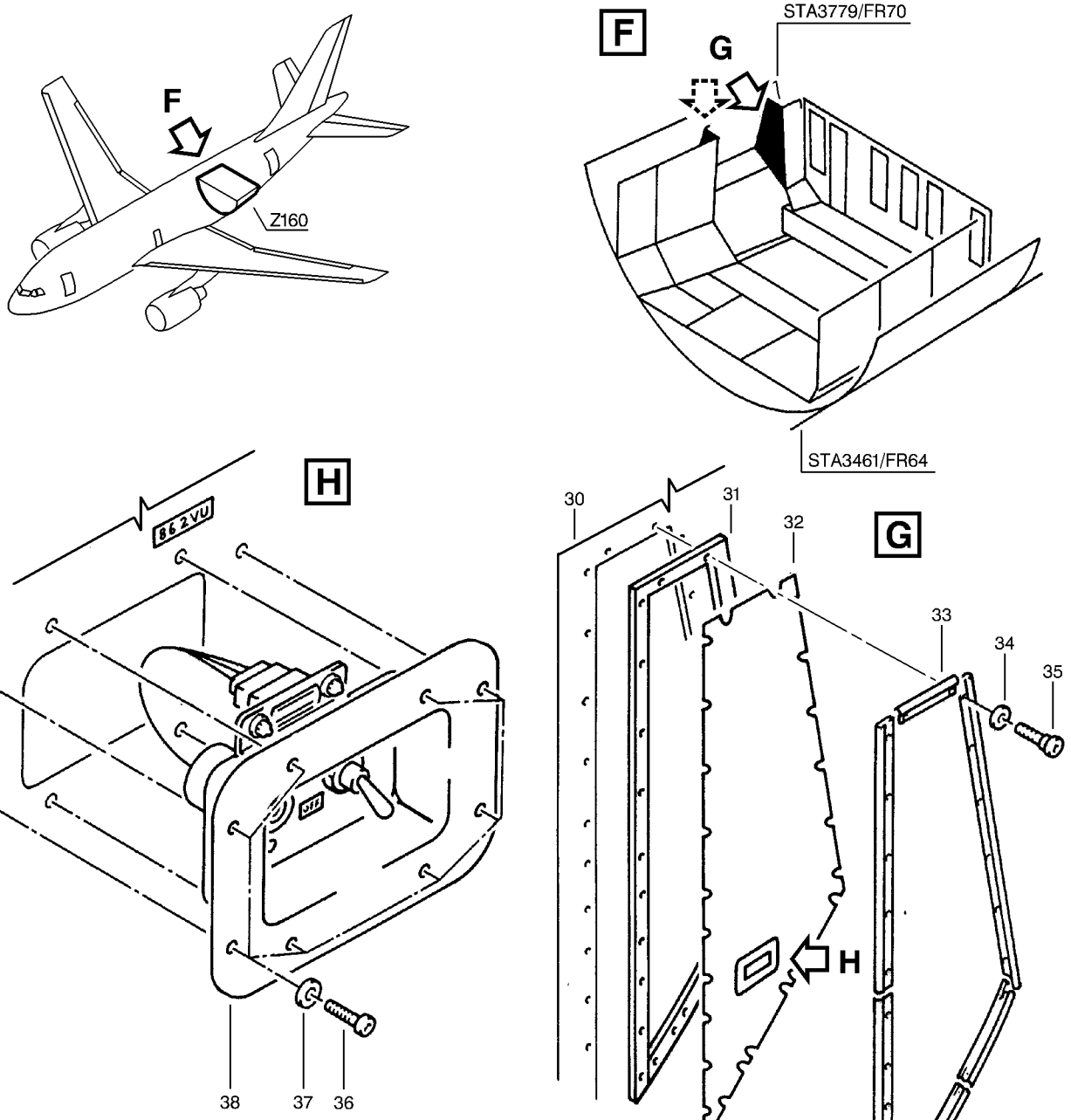



| ITEM | MATERIAL No 08-005A | DIMENSION mm | DIMENSION in. |
|---|---|---|---|
| 10 | SEALING STRIP | 9.0 x 4.0 | 0.354 x 0.157 |

NOTE: THE SECTIONS C-C AND D-D ARE SHOWN IN THE INSTALLED POSITION

BM6 25 66 30 2 ABU0 01

Sidewall and Partition
Decompression Panels
Figure 204




| ITEM | MATERIAL No 08-005A | DIMENSION mm | DIMENSION in. |
|---|---|---|---|
| 31 | SEALING STRIP | 19.0 x 4.0 | 0.748 x 0.157 |

BM6 25 66 30 2 ACM0 01

End Decompression Panels
R Figure 205

**ON A/C 001-005, 101-200,

C. Resecuring Decompression Panels
(1)Sidewall and Partition Decompression Panels (Ref. Fig. 201, 203)
(a)Remove decompression panels (11),(16).
(b)Remove any damaged adhesive tape (15) and sealing strips (10).
(c)Install new adhesive tapes and sealing strips as follows:
1 Clean and degrease contact surfaces of sidewall and partition panels (4),(5),(3) using cleaning agent (Material No. 11-002).
2 Apply adhesive tape (15) (Material No. 05-014) to corners of sidewall decompression panel (16). Observe installation dimensions as shown.
3 Apply sealing strip (10) (Material No. 08-005A) to contour surfaces of decompression panels (11),(16) as shown. Do not allow any gaps at sealing strip joints.
(d)If catch assembly (14) is defective, remove screw (12), washer (13) and catch assembly (14).
(e)Install new catch assembly as follows:
1 Coat threads of screw (12) with sealant (Material No. 05-002).
2 Install catch assembly (14) with washer (13) and screw (12). TORQUE screw (12) to 0.45 ± 0.05 m.N (3.98 to ±0.443 lbf.in.).
(f)Position decompression panels (11),(16) and press firmly to make certain that catch assemblies (14) are engaged.
(2)Ceiling Decompression Panels (Ref. Fig. 201, 203)
(a)Remove screws (8) and washers (9).
(b)Remove decompression panel (6).
(c)Remove damaged sealing strips (7),(20).
(d)Install new sealing strips (7),(20) as follows:
1 Clean and degrease contact surfaces of ceiling panels (1),(2) and of decompression panels (6) using cleaning agents (Material No. 11-002).
2 Apply sealing strips (7),(20) (Material No. 08-005A) to contour surfaces of ceiling panels (1),(2) and decompression panel (6).
(e)If a catch assembly (17) is defective, remove screw (18) and washer (19).
(f)Install new catch assembly (17) as follows:
1 Coat thread of screw (18) with sealant (Material No. 05-002).
2 Install catch assembly (17) with washer (19) and screw (18).
3 TORQUE screw (18) to 0.45 ±0.05 m.N (3.98 ±0.443 lbf.in.).
(g)Position decompression panel (6) to ceiling panels (1),(2).
(h)Coat threads of screws (8) with sealant (Material No. 05-002).
(i)Install screws (8) with washers (9).
(j)Close decompression panel (6).
(3)End Decompression Panels (Ref. Fig. 205)
(a)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | AUDIO SYS/INTPH AMPL/SVCE | 20RJ | 205/17E |
| 923VU | CARGO COMPT. LIGHTING BULK | 20LU | |

(b)Remove screws (36), washers (37) and switch panel 862VU (38) from forward end decompression panel (32).
(c)Disconnect electrical connectors from switch panel 862VU (38).
(d)Remove screws (35), washers (34), strips (33) and end decompression panels (32).
(e)Remove old sealing strips (31) from end panel (3).
(f)Clean contact surface of structural frame with cleaning agent (Material No. 11-002).
(g)Install new sealing strips (31) (Material No. 08-005A) on end panel (30).
(h)Install end decompression panels (32) using screws (35), washers (34) and strips (33).
(i)Connect electrical connectors to switch panel 862VU (38).
(j)Install switch panel 862VU (38) using screws (36) and washers (37).
(k)Remove safety clips and tags and close circuit breakers 20RJ and 20LU.

**ON A/C 006-100,

C. Resecuring Decompression Panels
(1)Sidewall and Partition Decompression Panels (Ref. Fig. 201, 203)
(a)Remove decompression panels (11),(16).
(b)Remove any damaged adhesive tape (15) and sealing strips (10).
(c)Install new adhesive tape and sealing strips as follows:
1 Clean and degrease contact surfaces of sidewall and partition panels (4),(5),(3) using cleaning agent (Material No. 11-002).
2 Apply adhesive tape (15) (Material No. 05-014) to corners of sidewall decompression panel (16). Observe installation dimensions as shown.
3 Apply sealing strips (10) (Material No. 08-005A) to contour surfaces of decompression panels (11),(16) as shown. Do not allow any gaps at sealing strip joints.
(d)If catch assembly (14) is defective, remove screw (12), washer (13) and catch assembly (14).
(e)Install new catch assembly as follows:
1 Coat threads of screw (12) with sealant (Material No. 05-002).
2 Install catch assembly (14) with washer (13) and screw (12). TORQUE screw (12) to 0.45 ± 0.05 Nm (3.98 to ± 0.443 lbf.in.).
(f)Position decompression panels (11),(16) and press firmly to make certain that catch assemblies (14) are engaged.
(2)End Decompression Panels (Ref. Fig. 205)
(a)Open, safety and tag the following circuit breakers:

| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 22VU | AUDIO SYS/INTPH AMPL/SVCE | 20RJ | 205/17E |
| 923VU | CARGO COMPT. LIGHTING BULK | 20LU | |

(b)Remove screws (36), washers (37) and switch panel 862VU (38) from forward end decompression panel (32).
(c)Disconnect electrical connectors from switch panel 862VU (38).

(d)Remove screws (35), washers (34), strips (33) and end decompression panels (32).
(e)Remove old sealing strips (31) from end panel (3).
(f)Clean contact surface of structural frame with cleaning agent (Material No. 11-002).
(g)Install new sealing strips (31) (Material No. 08-005A) on end panel (30).
(h)Install end decompression panels (32) using screws (35), washers (34) and strips (33).
(j)Connect electrical connectors to switch panel 862VU (38).
(k)Install switch panel 862VU (38) using screws (36) and washers (37).
(l)Remove safety clips and tags and close circuit breakers 20RJ and 20LU.

**ON A/C ALL

D. Close-Up
(1)Make certain that work area is clean and clear of tools and miscellaneous items of equipment.
(2)Close BULK cargo compartment door.
(3)Remove warning notice from cargo loading system control panel in AFT cargo compartment.
(4)Remove door actuator safety lock (Ref. 52-30-00, P. Block 301).
(5)Close AFT cargo compartment door (Ref. 52-30-00, P. Block 1).
(6)Remove access platforms.

# COCKPIT DOOR DECOMPRESSION - FLAP REMOVAL/INSTALLATION

## 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Scraper - Non Metallic |
| B. | Tape - Adhesive |
| C. Material No. 08-001 | Bonding and Adhesive Compounds (Ref. 20-31-00) |
| Referenced Procedures<br>- 24-41-00, P. Block 301 | AC External Power Control |

## 2. Procedure

A. Job Set-Up
(1) Connect the electrical ground power unit and energize the aircraft external network (Ref. 24-41-00, P. Block 301).
(2) Make sure that the electronic racks ventilation is correct.

B. Removal
(Ref. Fig. 401)
(1) Open the cockpit door (1).
(2) Remove the screws (5), the washers (4), the spacers (10) and the protection cover (3).
(3) Hold the decompression flap (9) on the cabin side of the cockpit door (1) during the following steps:

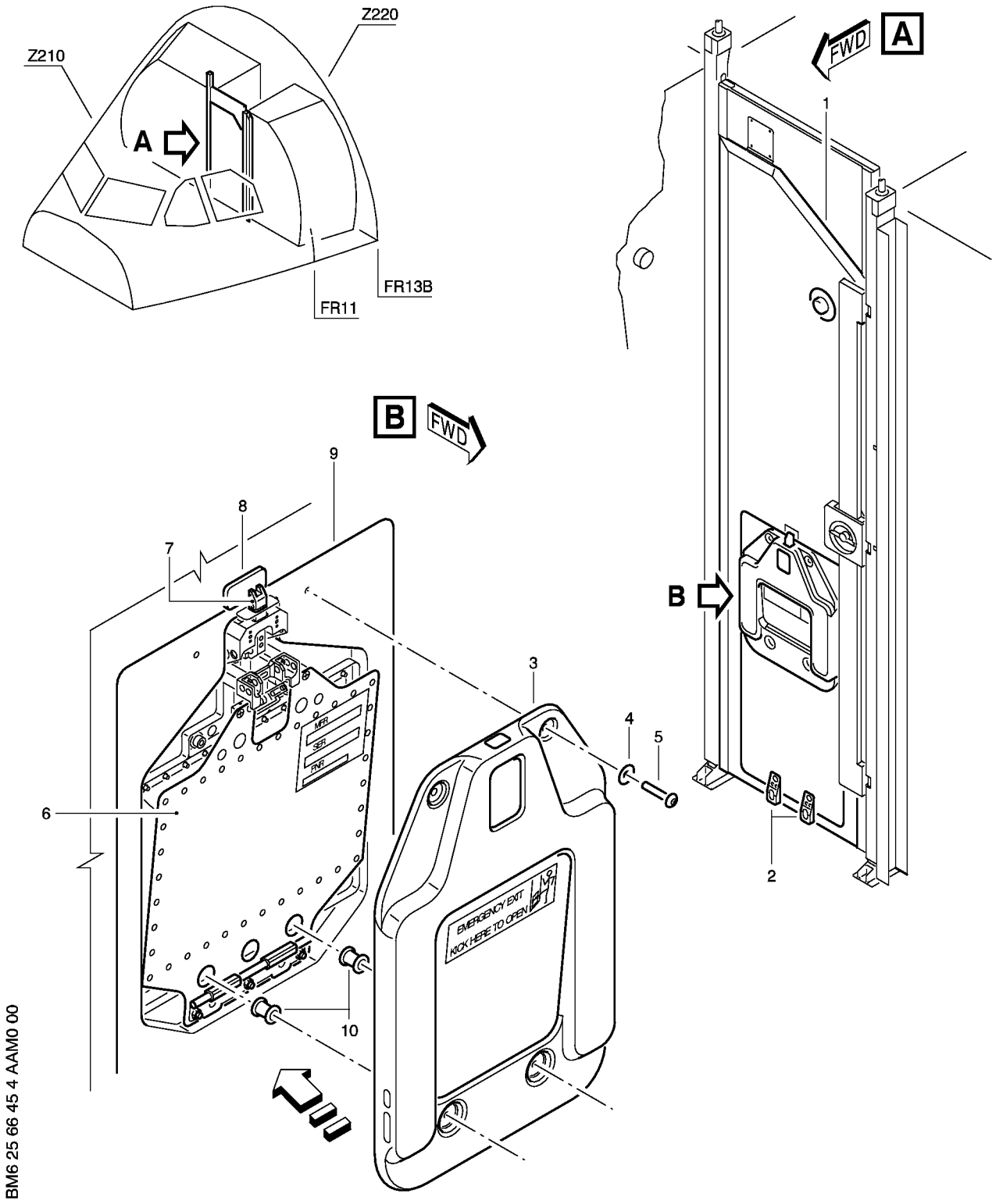
NOTE : This makes sure that the decompression flap does not fall onto the cabin floor.

(a) Carefully push against the fiber plate (6) to disengage the latch (7).
(b) Open the decompression flap (9) approximately 30 deg in the direction of the cabin.
(c) Carefully lift the decompression flap (9) to disengage the hooks (2) from the cockpit door (1).
(d) Remove the decompression flap (9).
(4) Close the cockpit door (1).

C. Installation
(Ref. Fig. 401)
(1) Open the cockpit door (1).
(2) Hold the decompression flap (9) on the cabin side of the cockpit door (1) during the following steps:

NOTE : This makes sure that the decompression flap does not fall onto the cabin floor.

(a) Lift the decompression flap (9) and carefully lower it to engage the hooks (2) in the cockpit door (1).




Cockpit Door Decompression - Flap
Figure 401

(b)Push the decompression flap (9) into the cockpit door (1) until the latch (7) engages.

(3)Make sure that:

- The position of the latch (7) is near the scarified line on the setting block (8).
- On the cabin side, the surface of the decompression flap (9) is less than 1 mm (0.0393 in.) above the surface of the cockpit door (1).
- The decompression flap (9) does not rattle.

(4)If the decompression flap (9) does not comply with all the above properties:

(a)Hold the decompression flap (9) on the cabin side of the cockpit door (1) during the following steps:

NOTE : This makes sure that the decompression flap does not fall onto the cabin floor.

1 Carefully push against the fiber plate (6) to disengage the latch (7).
2 Open the decompression flap (9) approximately 30 deg in the direction of the cabin.
3 Carefully lift the decompression flap (9) to disengage the hooks (2) from the cockpit door (1).
4 Remove the decompression flap (9).

(b)Use a non metallic scraper and carefully remove the setting block (8) from the cockpit door (1).

(c)Use an adhesive tape to temporarily attach a thinner or thicker setting block (8) to the cockpit door (1).

(d)Make sure that the lower edge of the setting block (8) aligns with the upper edge of the flap cutout.

(e)Do step (2) thru (3) of this procedure again.

(f)Hold the decompression flap (9) on the cabin side of the cockpit door (1) during the following steps:

NOTE : This makes sure that the decompression flap does not fall onto the cabin floor.

1 Carefully push against the fiber plate (6) to disengage the latch (7).
2 Open the decompression flap (9) approximately 30 deg in the direction of the cabin.
3 Carefully lift the decompression flap (9) to disengage the hooks (2) from the cockpit door (1).
4 Remove the decompression flap (9).

(g)Record the position of the setting block (8) and remove the adhesive tape.

(h)Remove the setting block (8).

(j)Apply a small quantity of bonding and adhesive compound (Mat. No. 08-001) to the setting block (8).

(k)Bond the setting block (8) to the cockpit door (1) at the recorded position.

(l)Let the bonding and adhesive compound (Mat. No. 08-001) cure for 15 minutes.

(m)Hold the decompression flap (a) on the cabin side of the cockpit door (1) during the following steps:

NOTE : This makes sure that the decompression flap does not fall onto the cabin floor.

1 Lift the decompression flap (9) and carefully lower it to engage the hooks (2) in the cockpit door (1).
2 Push the decompression flap (9) into the cockpit door (1) until the latch (7) engages.

(5)Install the protection cover (3) with the spacers (10), the washers (4) and the screws (5).
(6)Close the cockpit door (1).

D. Close-Up
(1)Make sure that the work area is clean and clear of tools and other items.
(2)De-energize the aircraft electrical network and disconnect the electrical ground power unit (Ref. 24-41-00, P. Block 301).

## 1. General

(Ref. Fig. 001)

The accessory compartments are located inside and outside the pressurized area of the fuselage.

The avionics compartment is located in the pressurized area under the flight compartment. The main landing gear well is located between the FWD and AFT cargo compartments. The equipment compartments are located between FR70 and FR95 in area of zones 171/172, 311/312 and 313/314.

### A. Avionics Compartment

The compartment is located between STA766/FR1 and STA1446/FR20 and is accessible through the FWD cargo compartment or the access hatch in the flight compartment. The avionics compartment is furnished with equipment racks for electrical and electronic units. The fuselage area within the compartment is lined with heat and sound insulation.

### B. Wheel Wells

The nose landing gear well is located between STA1019/FR11 and STA1315/FR17. The main landing gear well is located between FR39 and FR54 and houses air conditioning and hydraulic units.

### C. Equipment Compartment, zones 171 and 172

(Ref. Fig. 002)

The compartment is located between FR70 and FR80, aft of the BULK cargo compartment and is accessible through access door 162AZ. It is fitted with a catwalk and toolrack, and contains aft cabin pressure regulating valves, Digital Flight Data Recorder (DFDR) and cockpit voice recorder. An underwater locator beacon is attached to the DFDR. In addition, the compartment contains flight control system components and system lines for air conditioning, lavatory and galley ventilation, waste water and APU fuel. The compartment is located within the pressurized area of the fuselage, and is fitted with insulation blankets.

### D. Equipment Compartment, zones 311 and 312

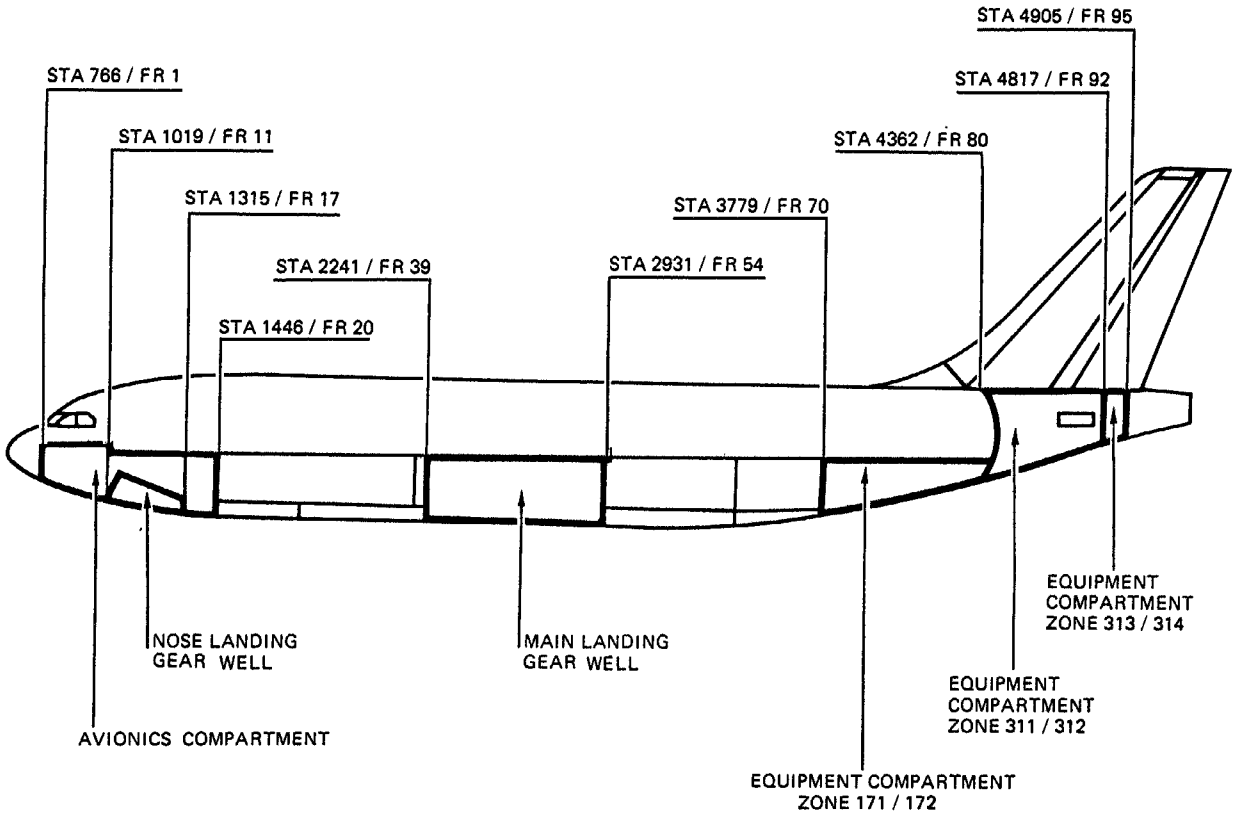
(Ref. Fig. 003)

The compartment is located between STA4415/FR83 and STA4817/FR92. It is accessible through access door 312AR and fitted with a walkway for maintenance access, contains attach fittings for the vertical and horizontal stabilizer, and components of the flight control and trim systems. The compartment is located outside the pressurized area.

### E. Equipment Compartment, zones 313 and 314

(Ref. Fig. 003)

The compartment is located between STA4817/FR92 and STA4905/FR95. It is accessible through access door 313AL and contains mainly components of the APU system (Ref. 49-00-00). The compartment is located outside the pressurized area.


STA 766 / FR 1
STA 1019 / FR 11
STA 1315 / FR 17
STA 2241 / FR 39
STA 1446 / FR 20
STA 2931 / FR 54
STA 3779 / FR 70
STA 4362 / FR 80
STA 4817 / FR 92
STA 4905 / FR 95
NOSE LANDING GEAR WELL
MAIN LANDING GEAR WELL
AVIONICS COMPARTMENT
EQUIPMENT COMPARTMENT ZONE 171 / 172
EQUIPMENT COMPARTMENT ZONE 311 / 312
EQUIPMENT COMPARTMENT ZONE 313 / 314

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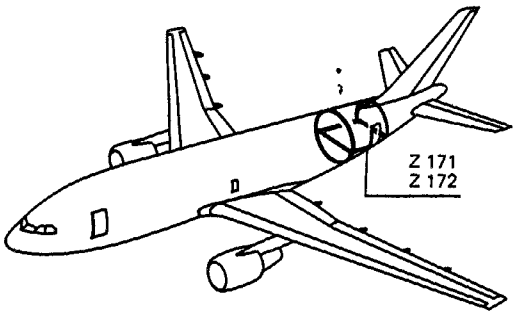
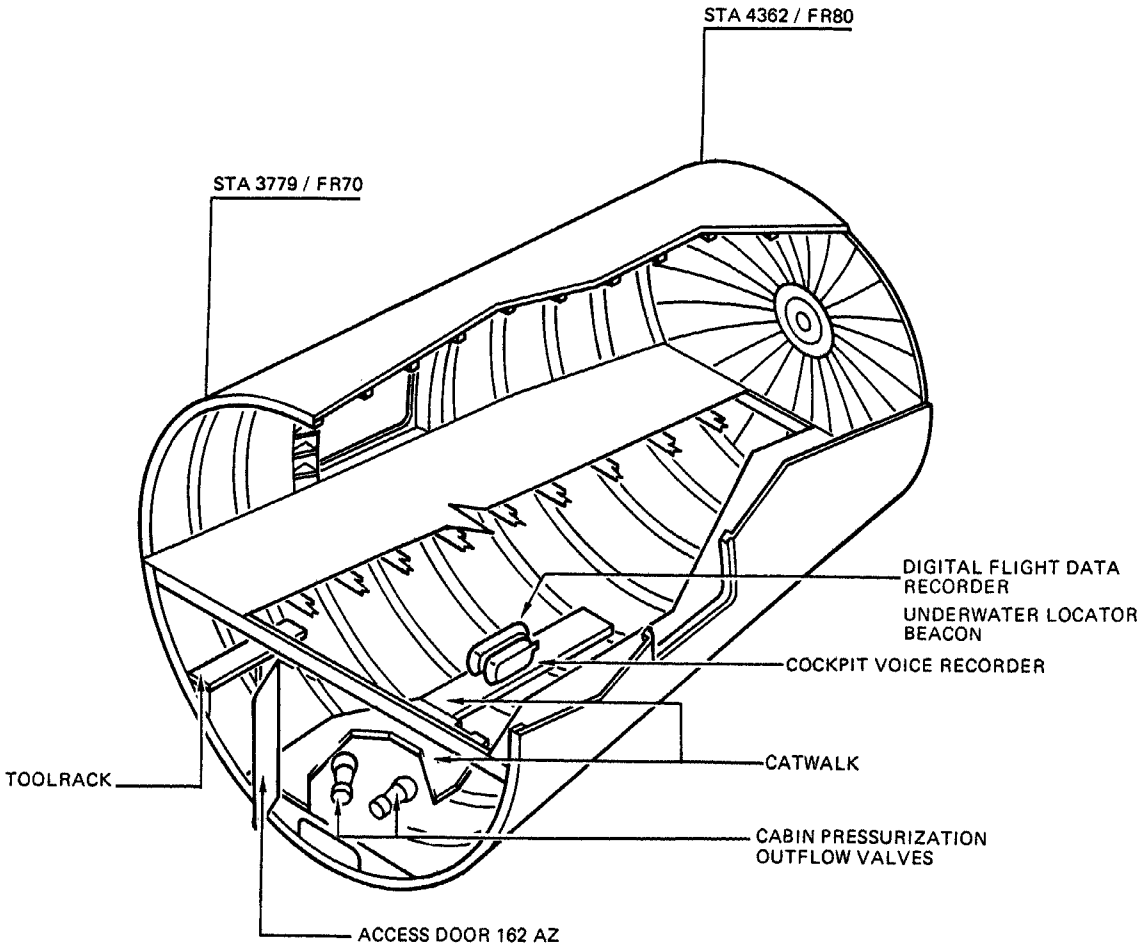
Arrangement of Accessory Compartments
Figure 001

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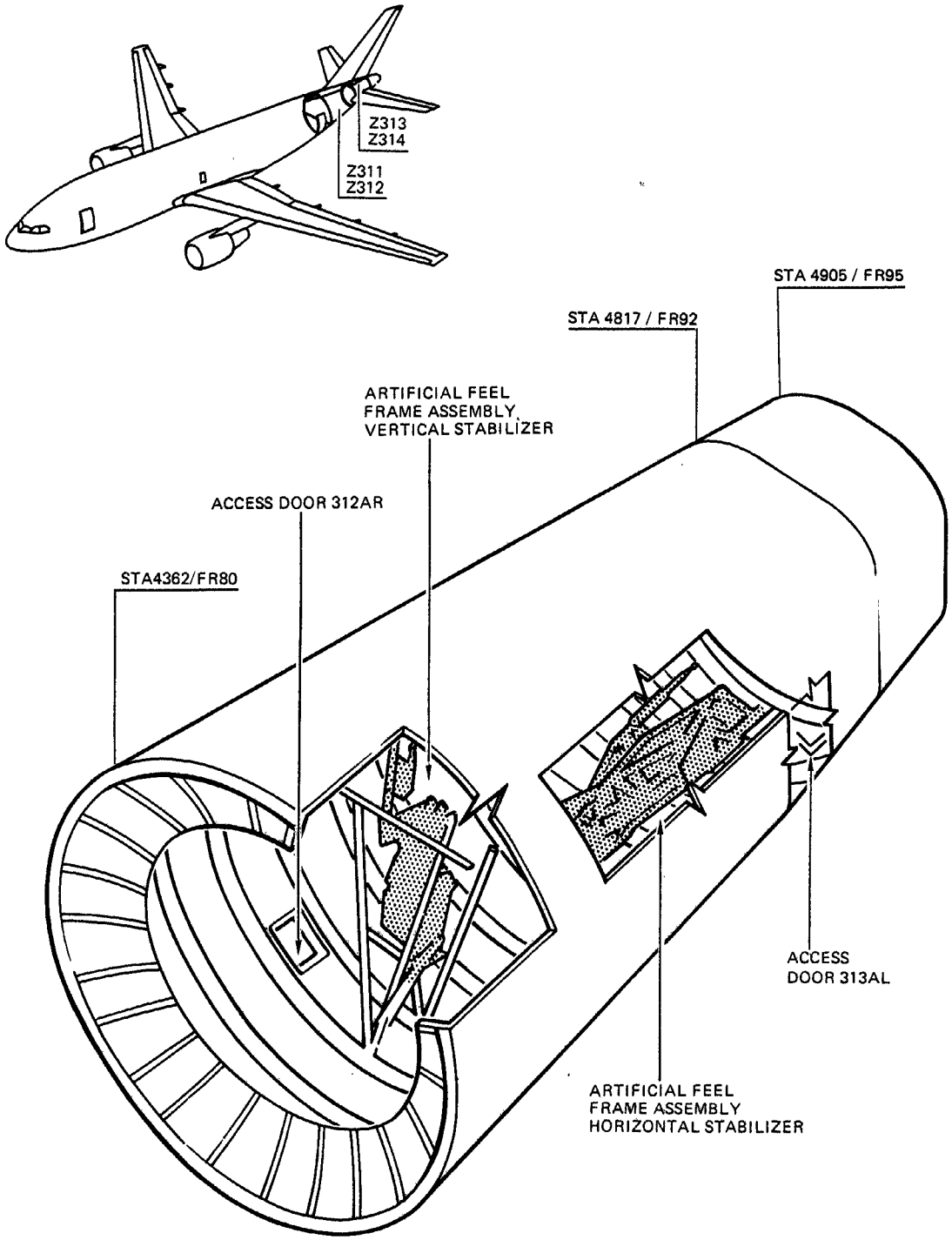
Typical Arrangement of Equipment Compartment
Zone 171/172
Figure 002

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Typical Arrangement of Equipment Compartment
Zones 311/312 and 313/314
Figure 003

# AVIONICS COMPARTMENT - DESCRIPTION AND OPERATION

## 1. General

The avionics compartment, located under the flight compartment and forward part of passenger compartment floor, between frames 10 and 20, contains the electronics racks and relay boxes for the aircraft electronic and electrical systems.

The internal walls of this compartment are equipped with thermal and sound insulation panels.

R Plinth panel assemblies on left side and protective tubes on right side are installed between the internal walls and floor panels of the compartment.

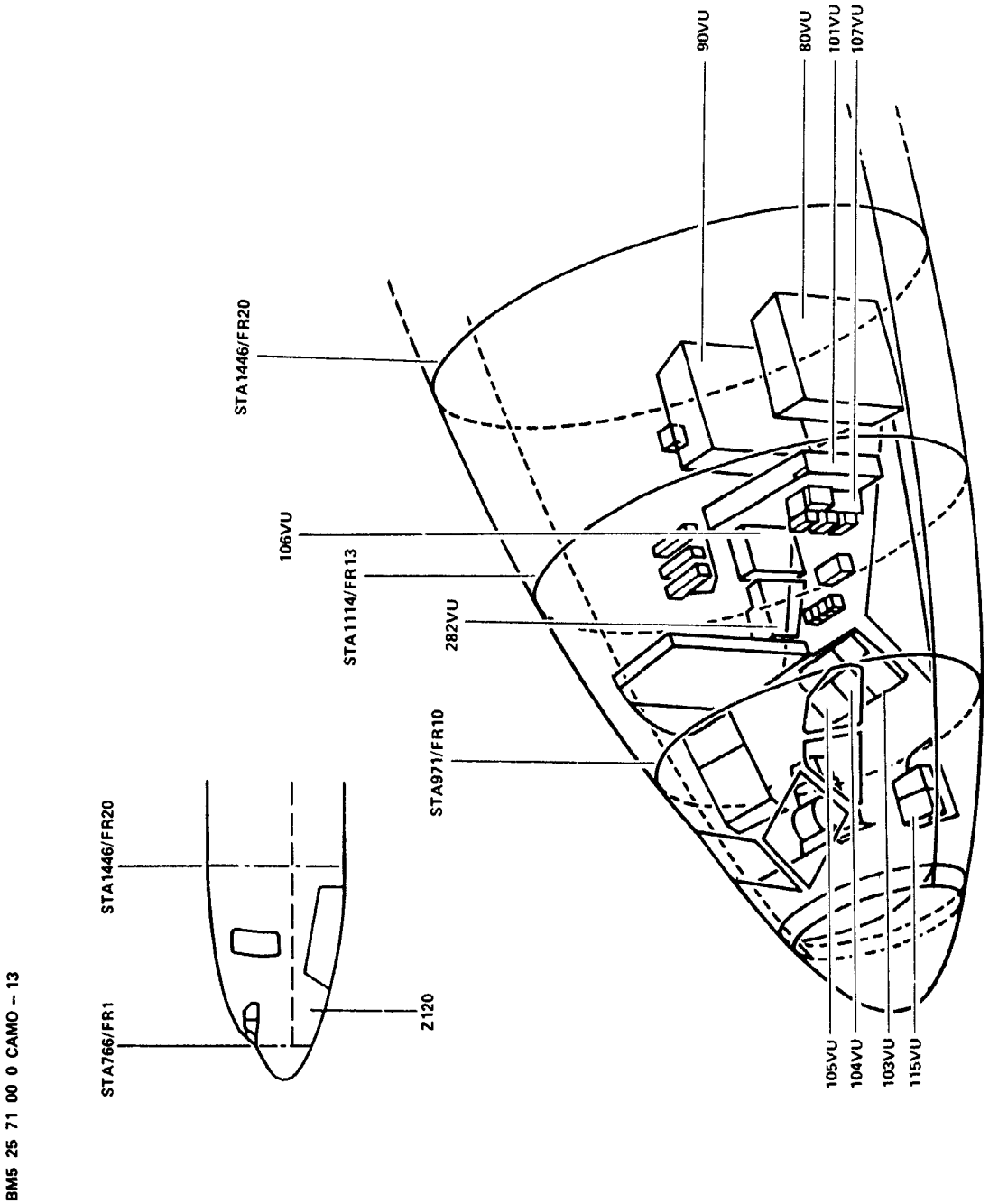
Protection of the various racks and relay boxes is provided by panel assemblies mounted on metallic frames.

Access to this compartment is gained, either through the forward cargo compartment door or through the access door in the flight compartment.

## 2. Component Location

(Ref. Fig. 001)

| FIN | FUNCTIONAL DESIGNATION | PANEL | ZONE | ACCESS DOOR | ATA REF. |
|---|---|---|---|---|---|
| | L ELECTRONICS RACK | 80VU | 121 | | |
| | R ELECTRONICS RACK | 90VU | 122 | | |
| | POWER CENTER-AC | 101VU | 120 | | |
| | RELAY BOX-FWD L | 103VU | 121 | | |
| | RELAY BOX-FWD CENTER | 104VU | 120 | | |
| | RELAY BOX-FWD R | 105VU | 122 | | |
| | POWER CENTER-DC | 106VU | 122 | | |
| | RELAY BOX-L SIDE | 107VU | 121 | | |
| | JUNCTION | 115VU | 121 | | |
| | RELAY BOX-R SIDE | 282VU | 122 | | |




General
Figure 001

3. Description
(Ref. Fig. 002, 003, 004)
(Ref. Fig. 005, 006, 007)
R (Ref. Fig. 008, 009, 010)
R (Ref. Fig. 011, 012, 013)
R (Ref. Fig. 014, 015, 016)
(Ref. Fig. 017, 018, 019)
(Ref. Fig. 020, 021, 022)
(Ref. Fig. 023, 024, 025)

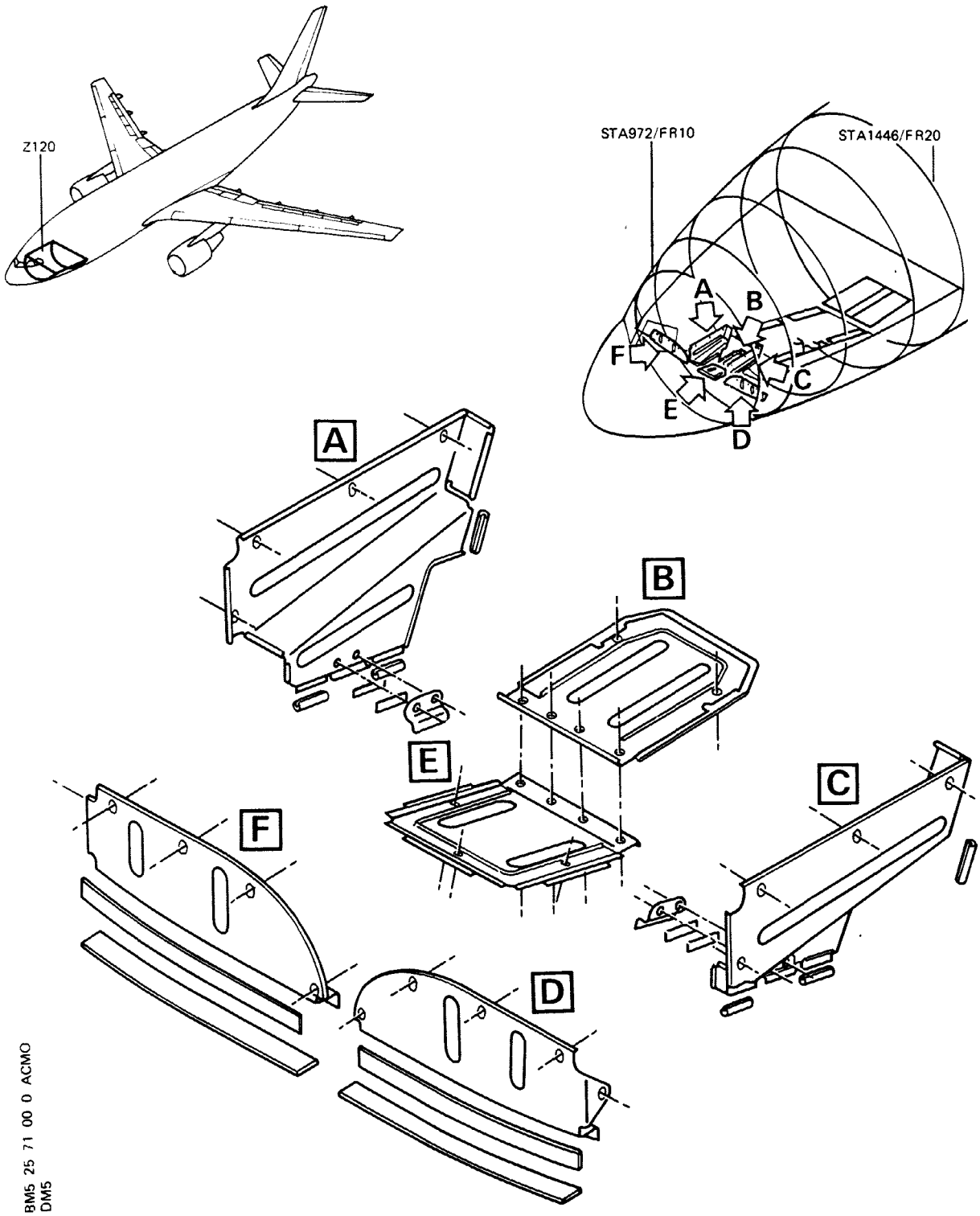
A. Avionics Compartment, Insulation Between FR10 and FR20
(1)General
Insulation between FR10 and FR20 is achieved by the installation of curved, light alloy panels equipped with rubber seals. These panels, bolted to U section supports on the aircraft structure, ensure the protection and insulation of the underfloor area.
(a)Insulation between FR10 and FR20
(Ref. Fig. 002)
This consists of
- An insulation assembly (A), on nose gear well between FR11A and FR14, on right side
- An attachment assembly (B), underfloor area between FR10 and FR11
- An insulation assembly (C), on nose gear well between FR11A and FR14, on left side
- An attachment assembly (D), underfloor area, right of FR10
- An attachment assembly (E), underfloor area, right of FR10

(b)Insulation assembly between FR11 and 14
(Ref. Fig. 003)
This consists of :
- A protective cover (A), between FR12 and 13, on left side
- An insulation (B), forward of nose gear well.

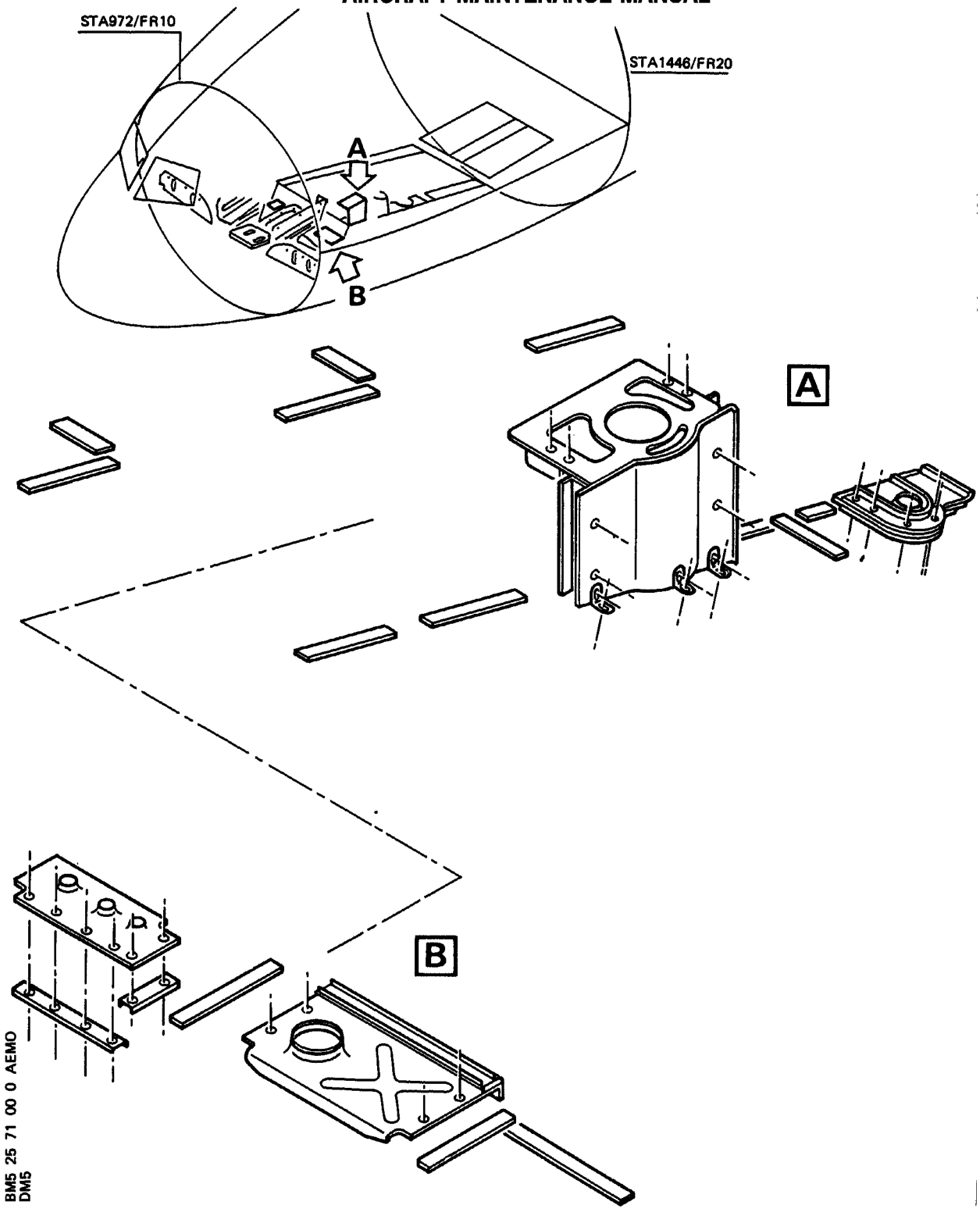
(c)Insulation assembly between FR14 and 17
(Ref. Fig. 004)
This consists of :
- A protective cover (A), between FR16 and 16A, on right side
- An insulation assembly (B), on nose gear well between FR14 and FR17, on left side
- A protective cover (C), between FR15 and 15A, on left side

(d)Insulation assembly between FR17 and FR20
(Ref. Fig. 005)
This consists of :
- An insulation assembly (A), underfloor area FR19, on right side
- A panel assembly (B) under right electronics rack
- A panel assembly (C) under left electronics rack
- A protective cover (D) aft of FR19, on left side

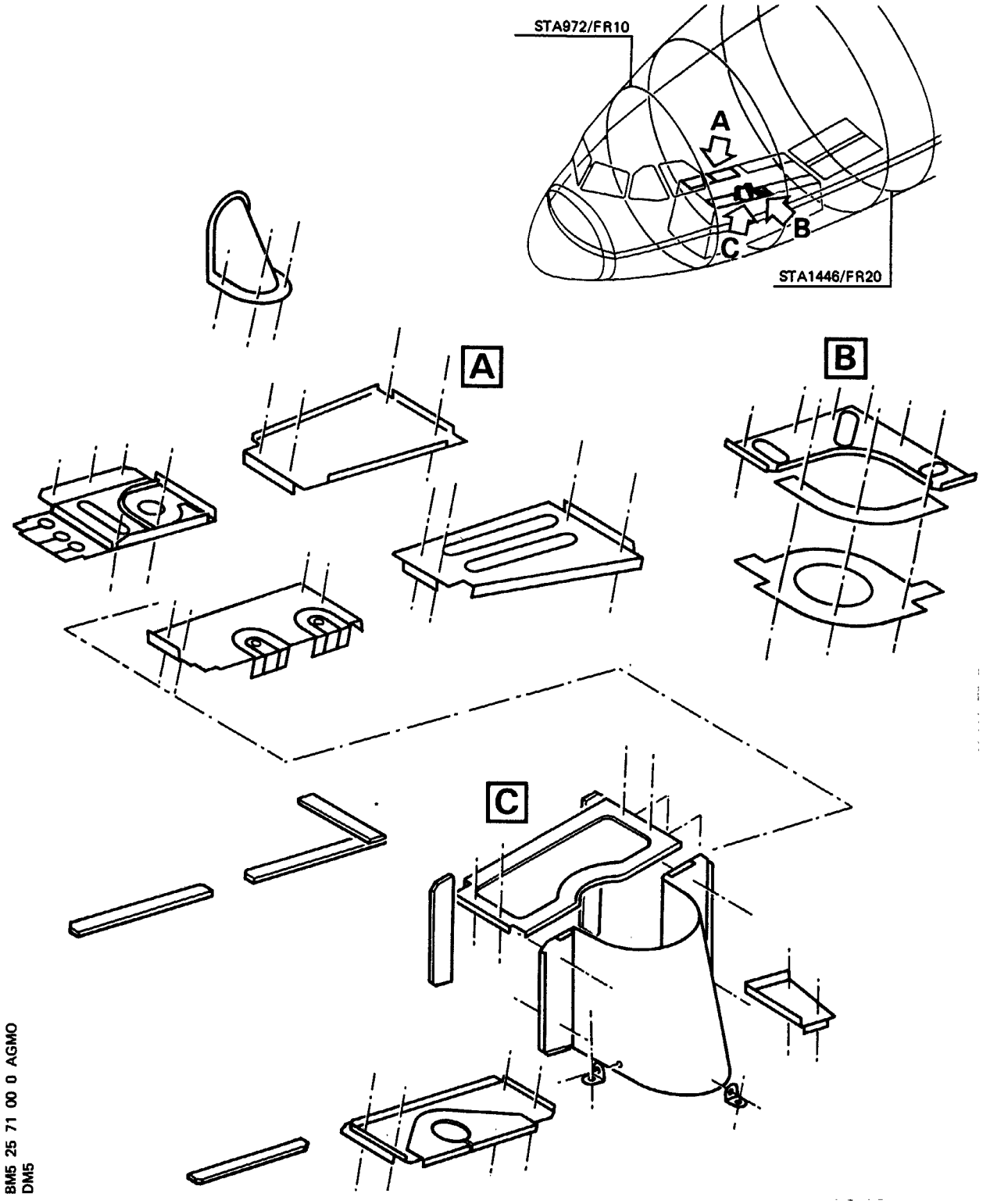
B. Insulation Blanket Supports, Section 12
(Ref. Fig. 006)
(1)General
The insulation blankets are attached to the structure, either by two-part attachment pins (A) which are installed through frame webs, or attachment



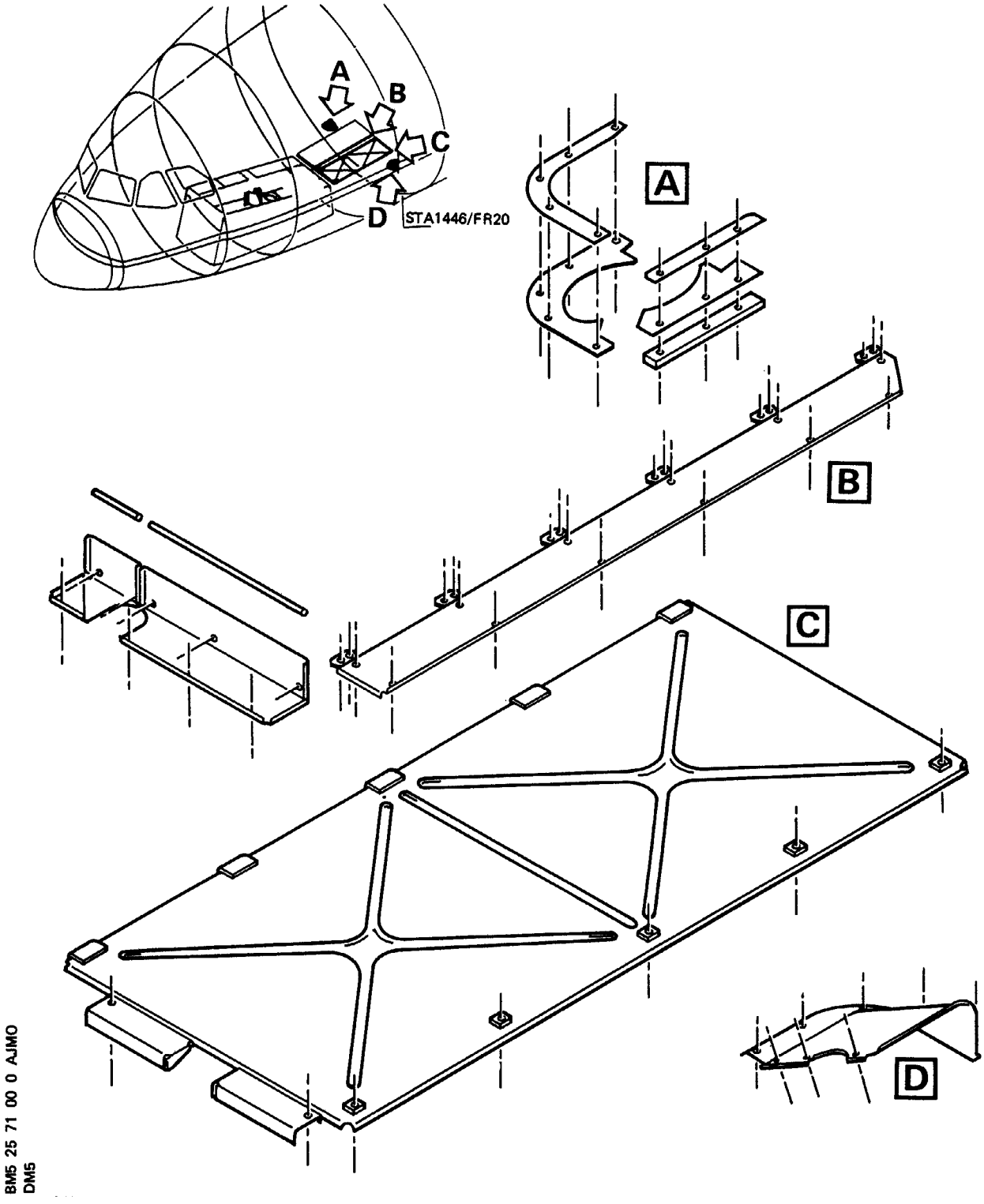

Insulation Between FR10 and FR20
Figure 002



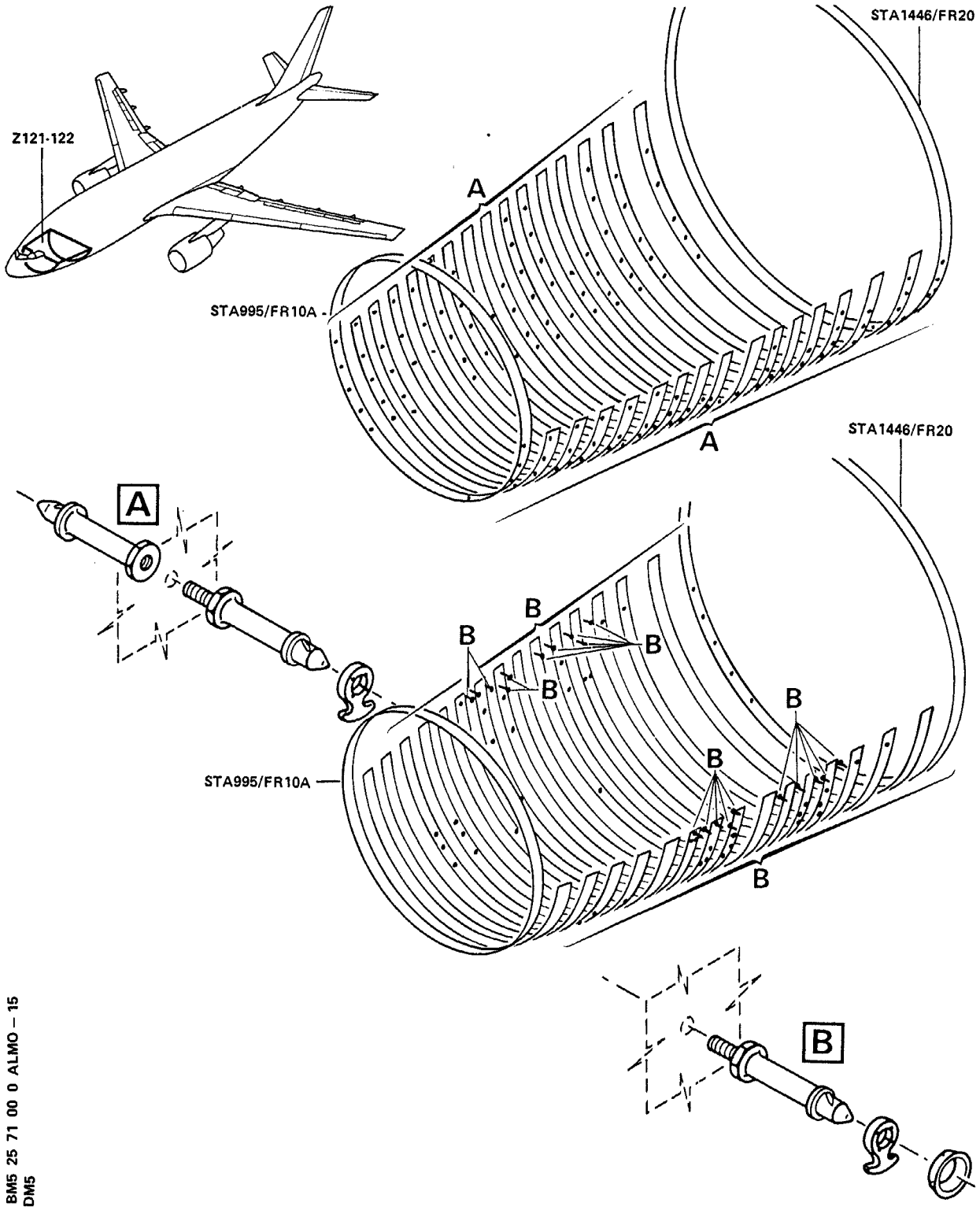

Insulation Between FR11 and FR14
Figure 003



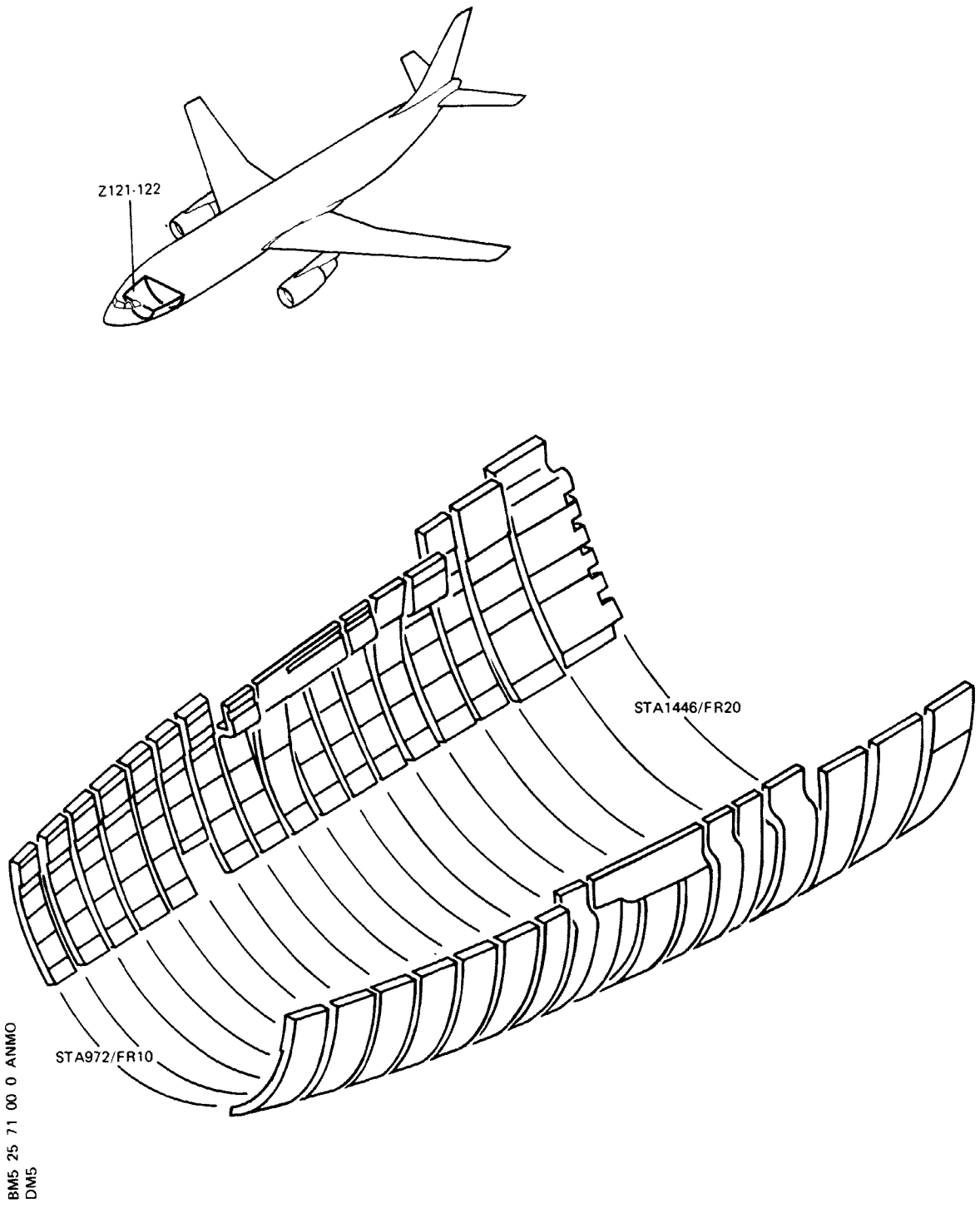

Insulation Between FR14 and FR17
Figure 004



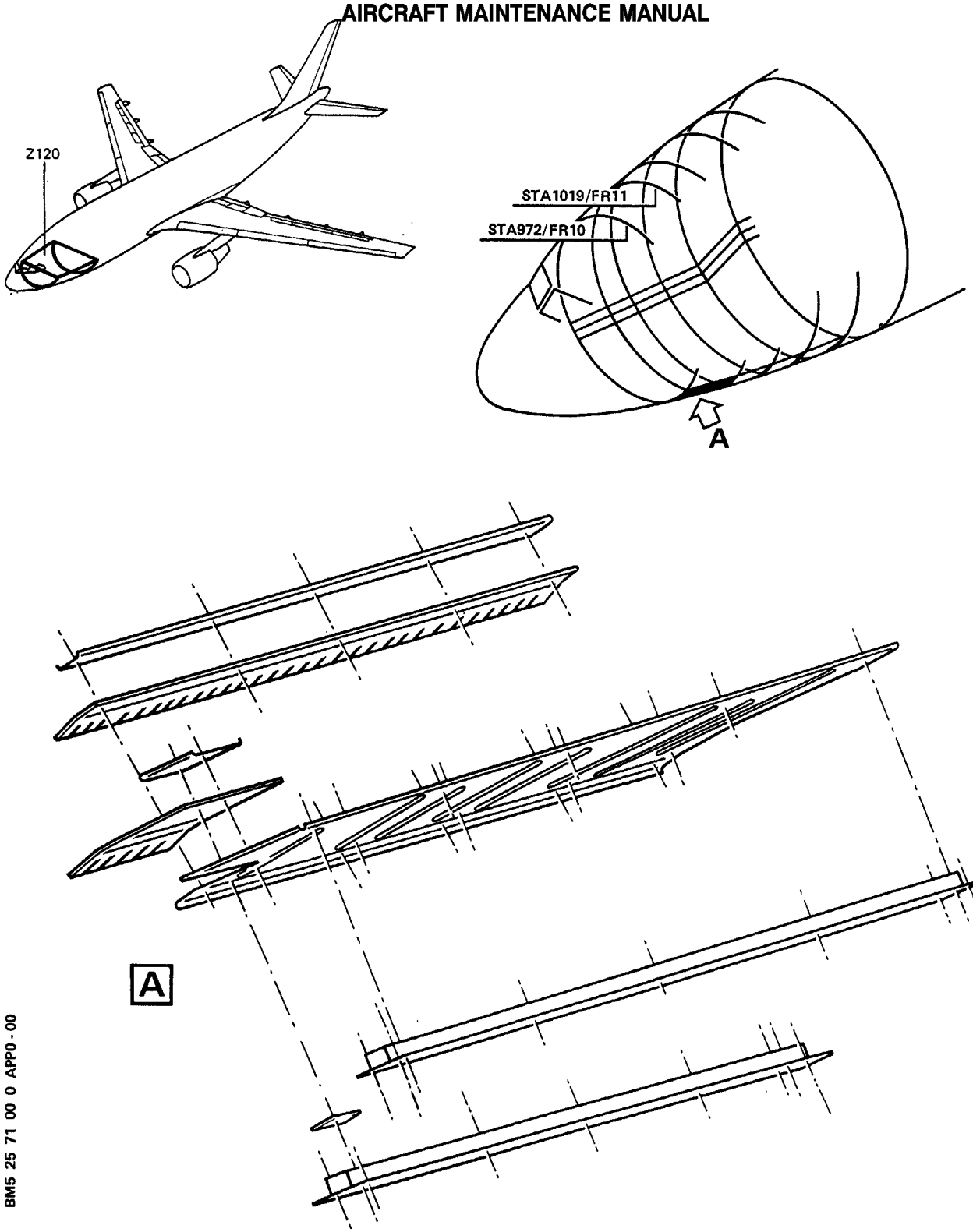

Insulation Between FR17 and FR20
Figure 005




Insulation Blanket Supports, Section 12
Figure 006




Insulation Blanket Location
Figure 007

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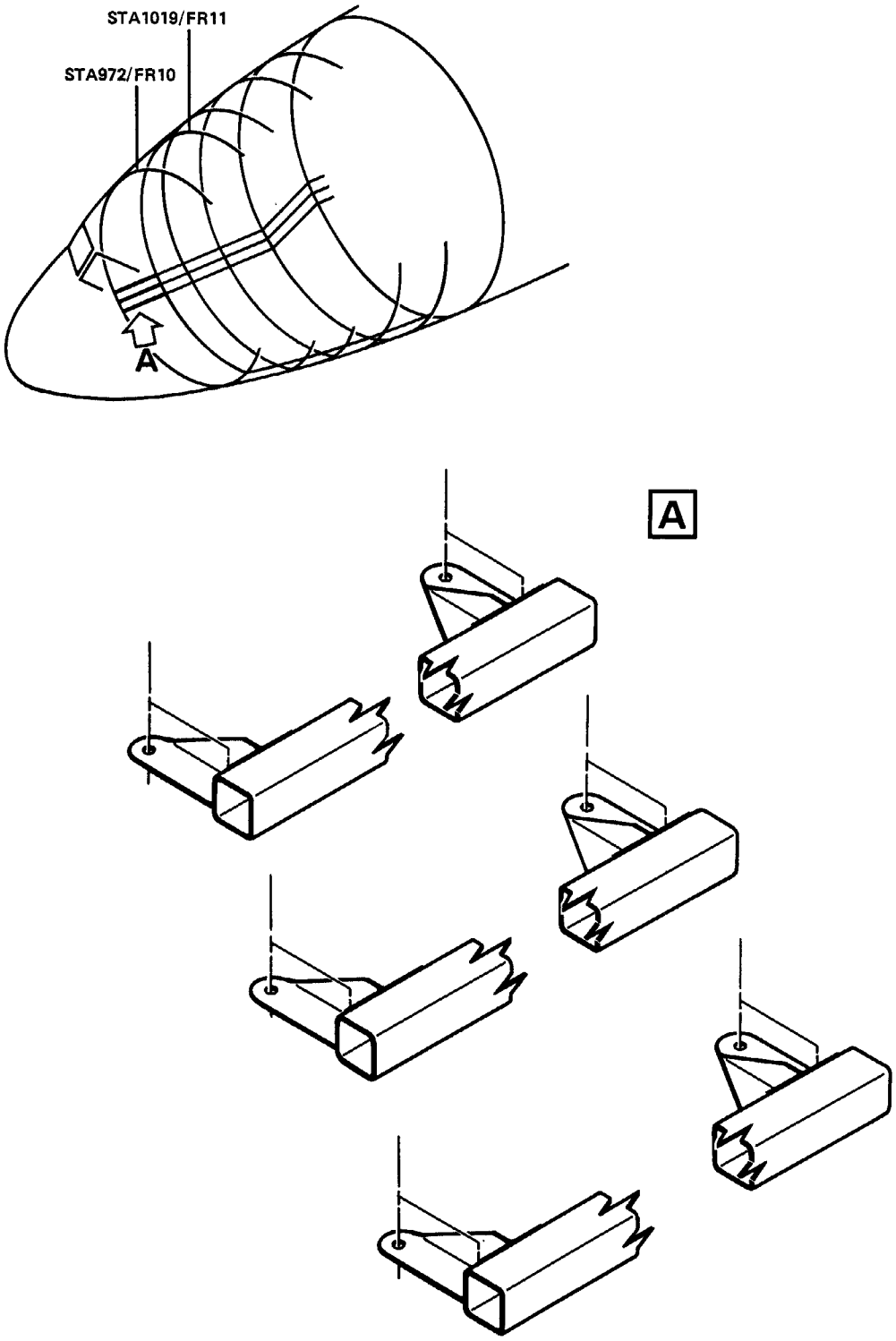
Plinth Panels Between FR10 and 11, Left Side
Figure 008

R

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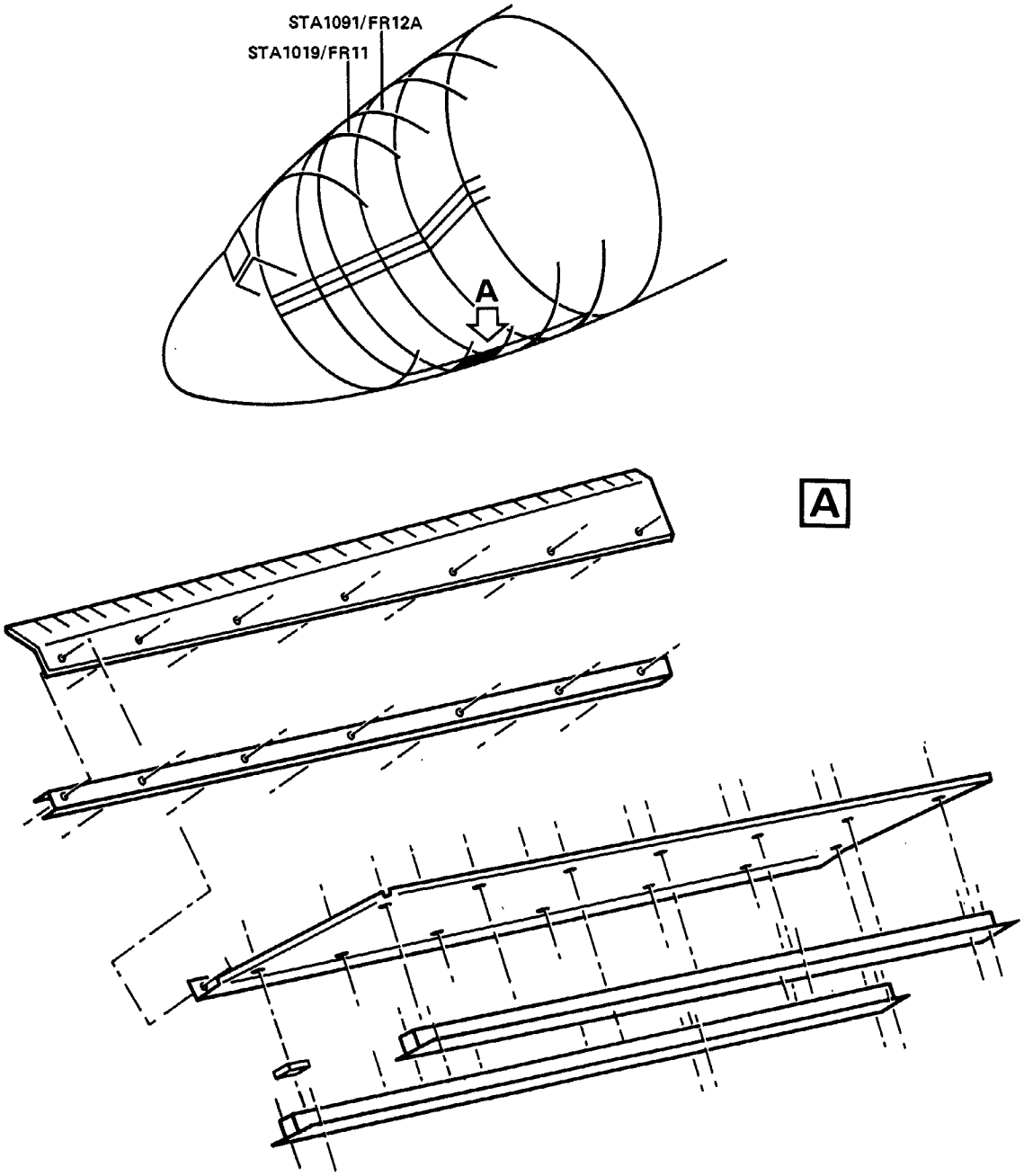
Plinth Panels Between FR10 and 11, Right Side
Figure 009

R

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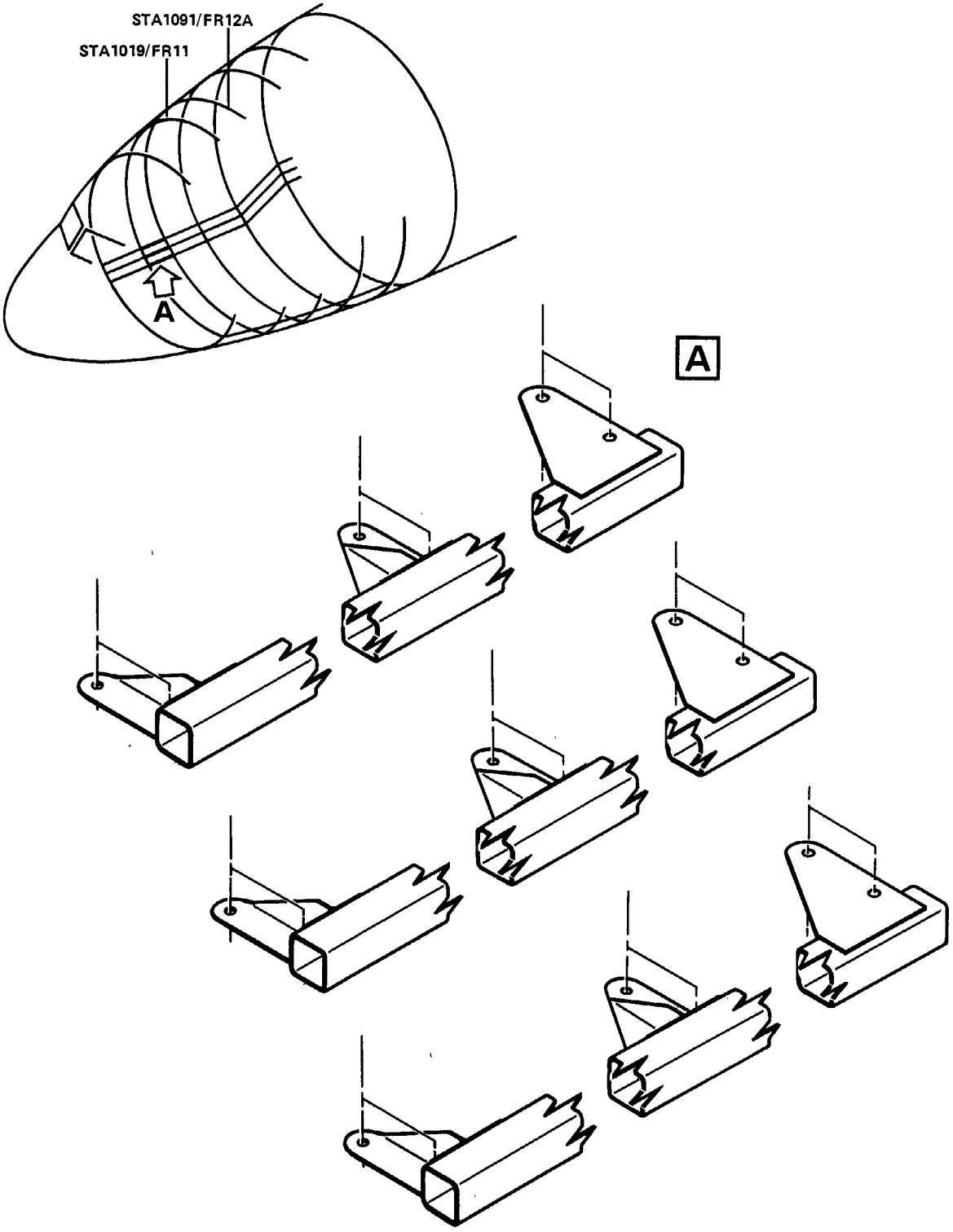
R Plinth Panels Between FR11 and 12A, Left Side
Figure 010

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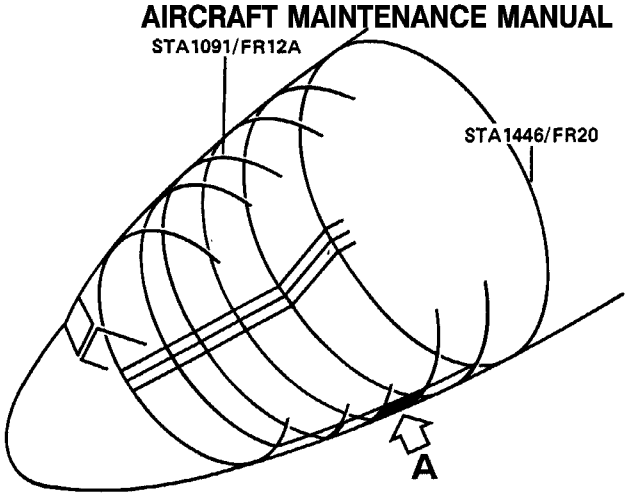
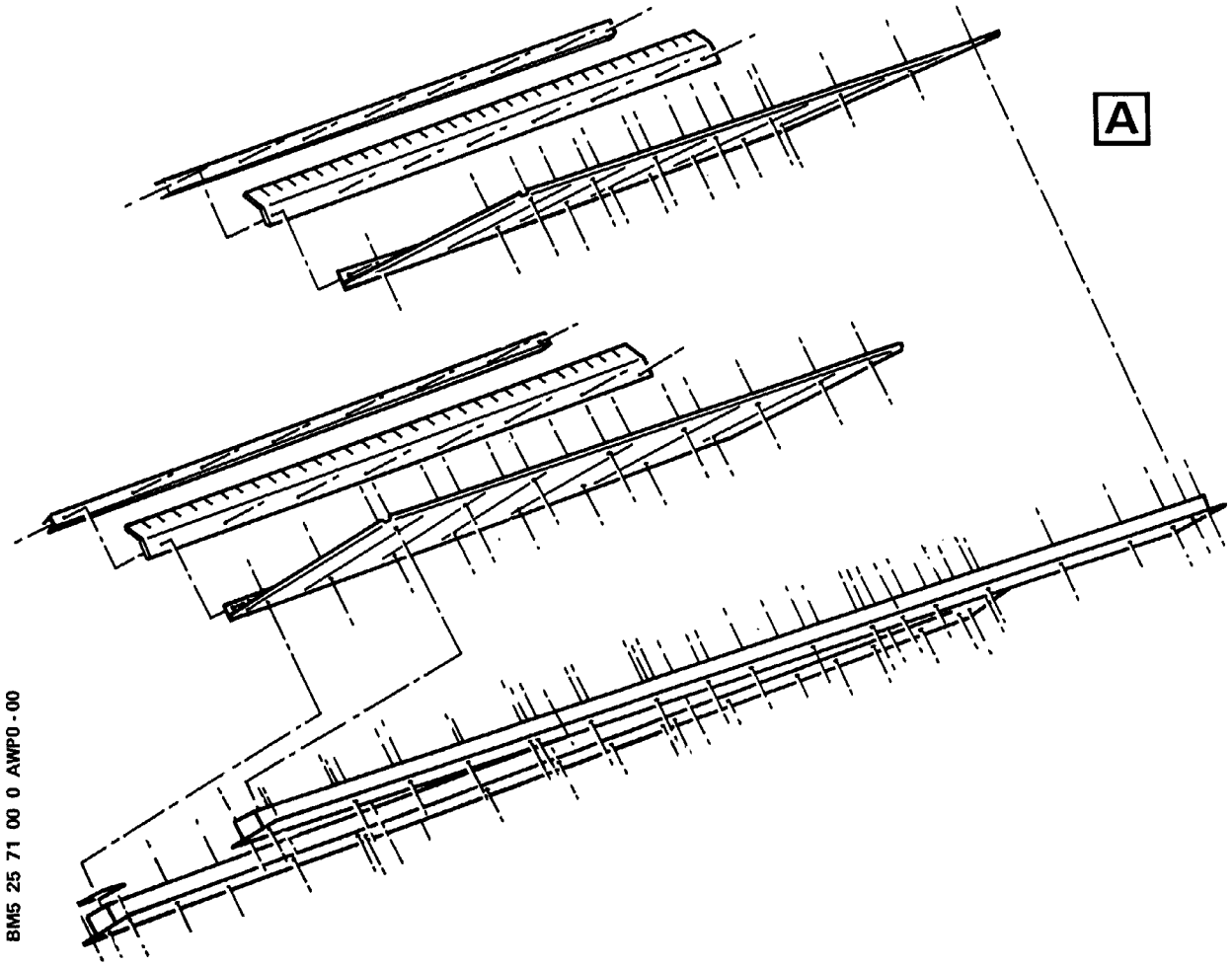
Plinth Panels Between FR11 and 12A, Right Side
Figure 011

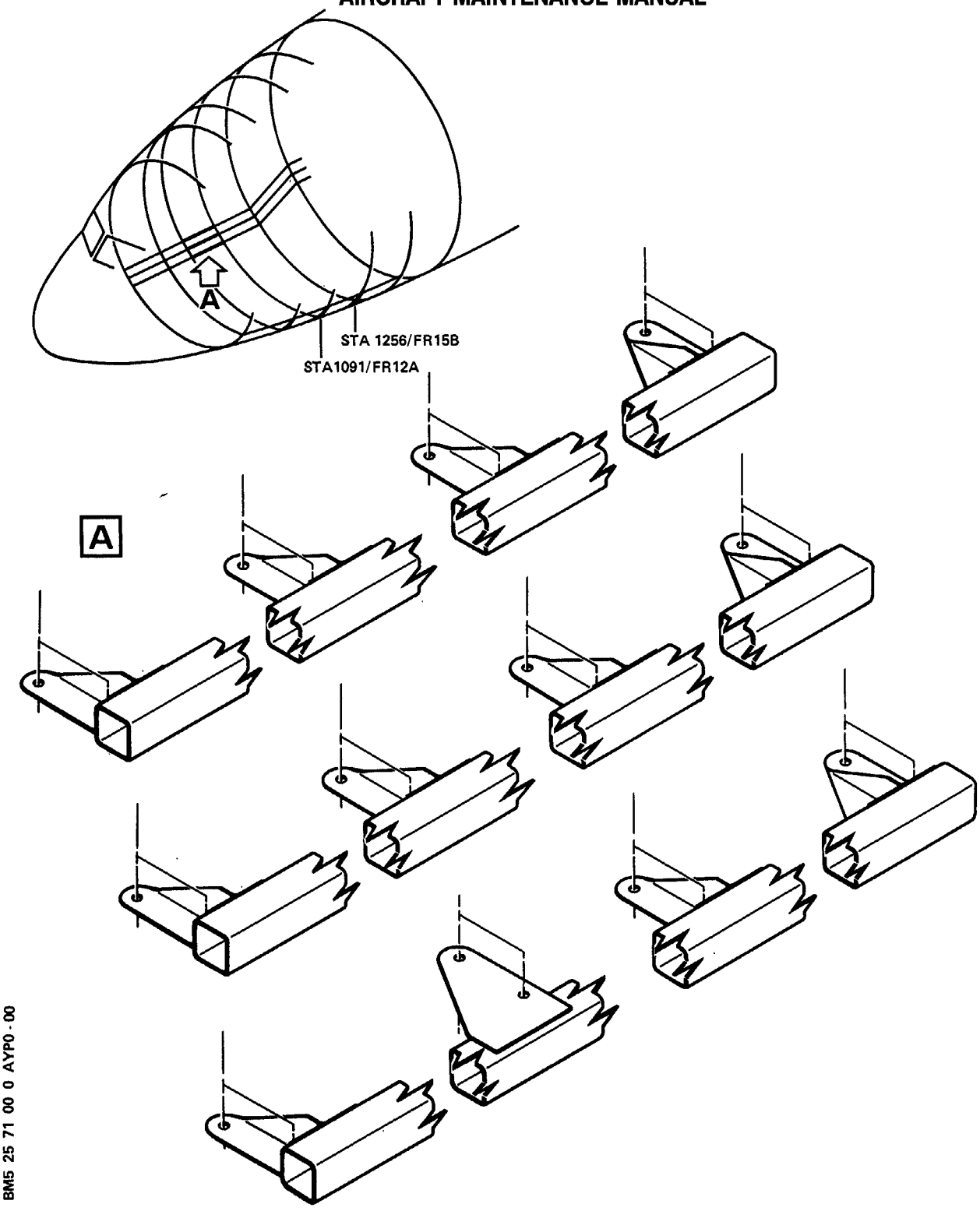
R



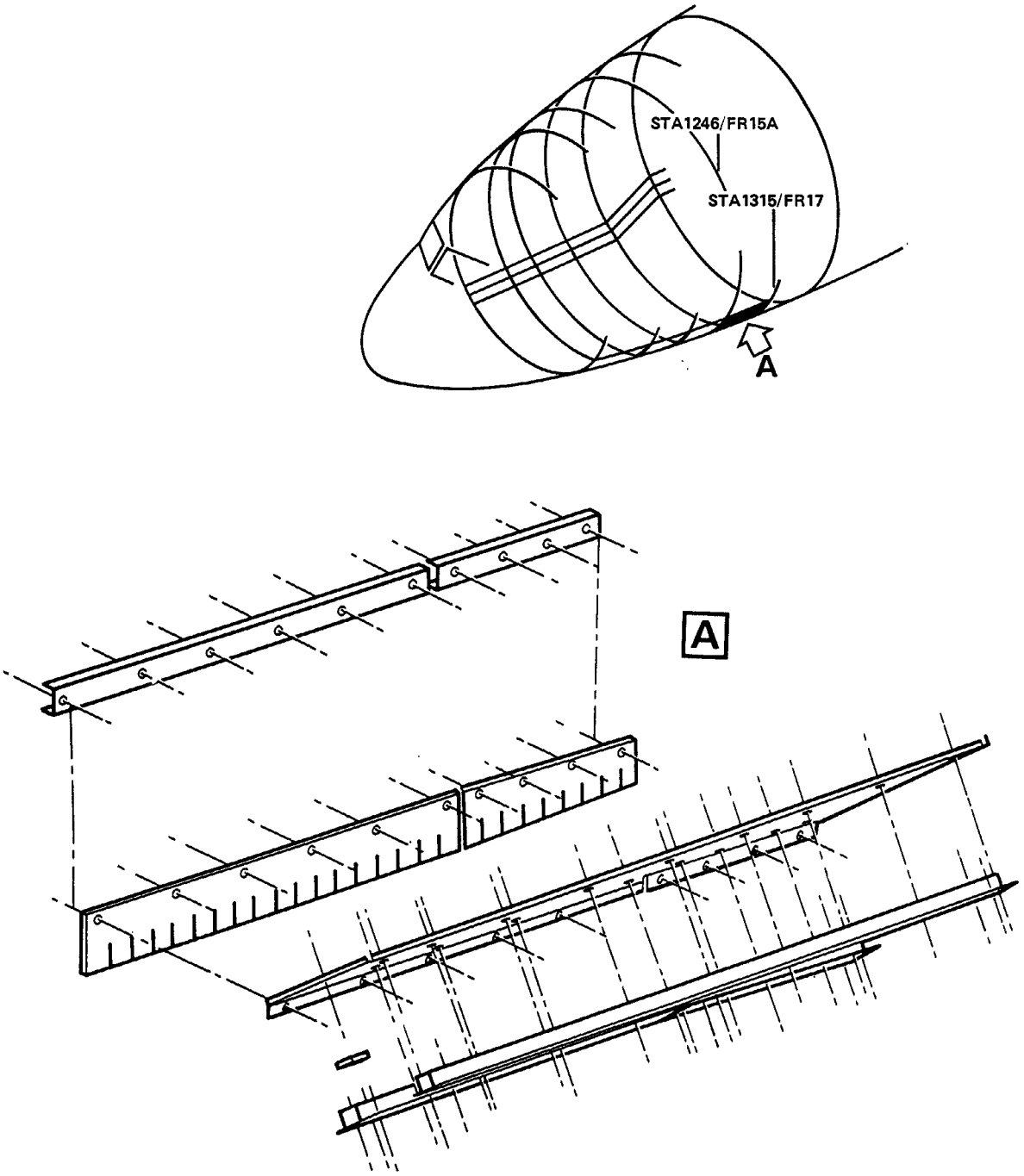

Plinth Panels Between FR12A and 15A, Left Side
Figure 012

R




Plinth Panels Between FR12A and 15A, Right Side
Figure 013

R

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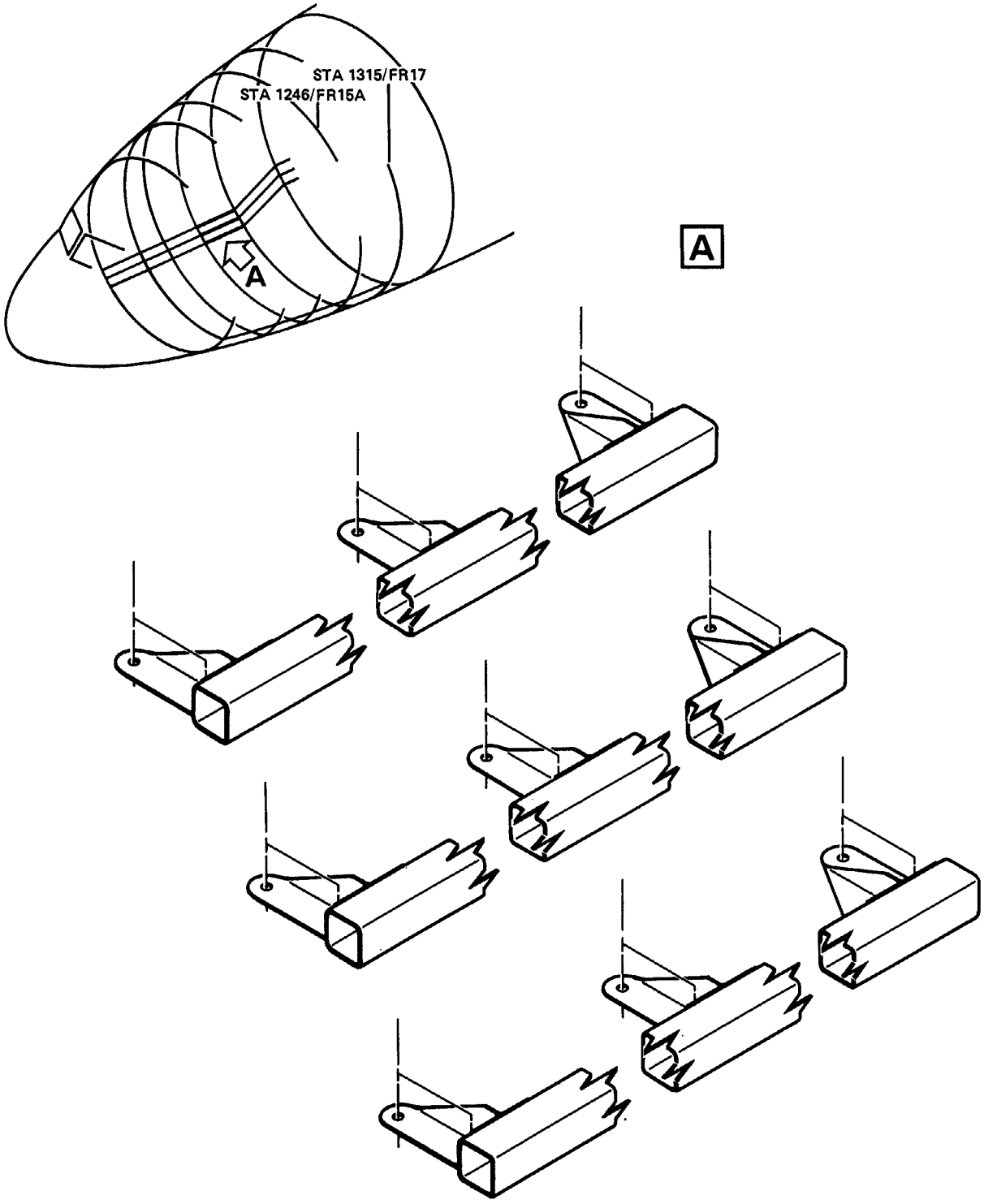
Plinth Panels Between FR15A and 17, Left Side
Figure 014

R

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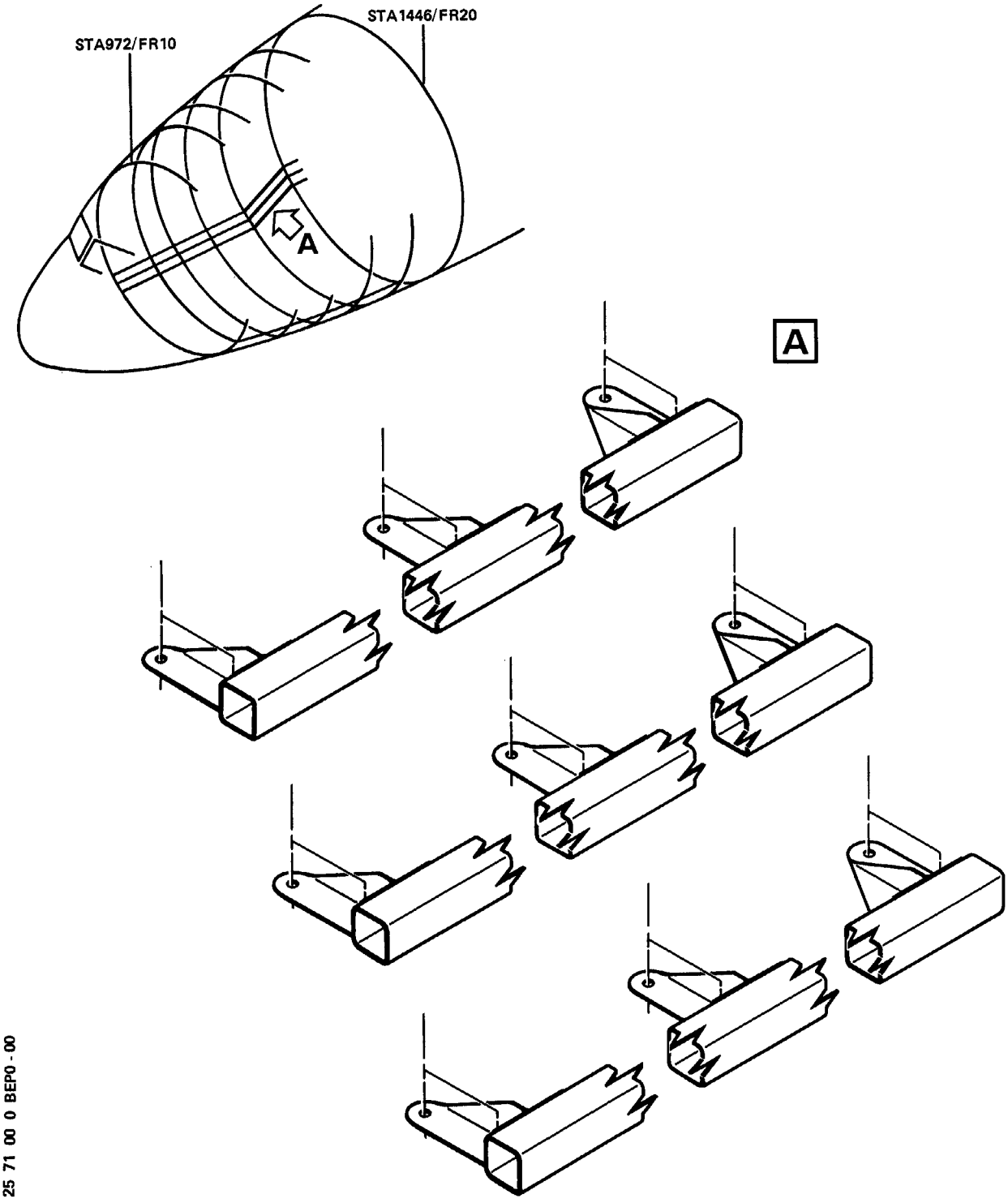
Plinth Panels Between FR15A and 17, Right Side
Figure 015

R

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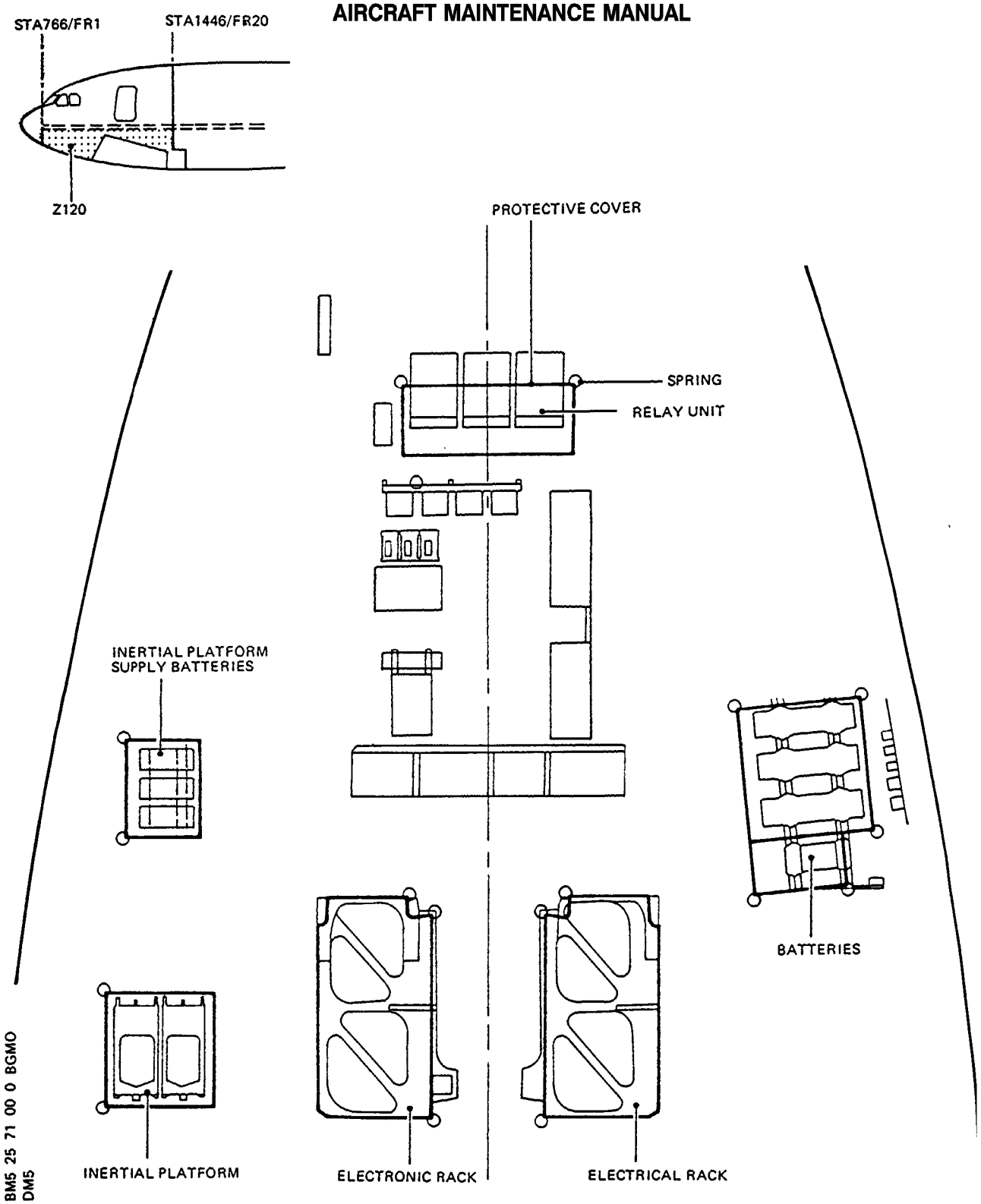
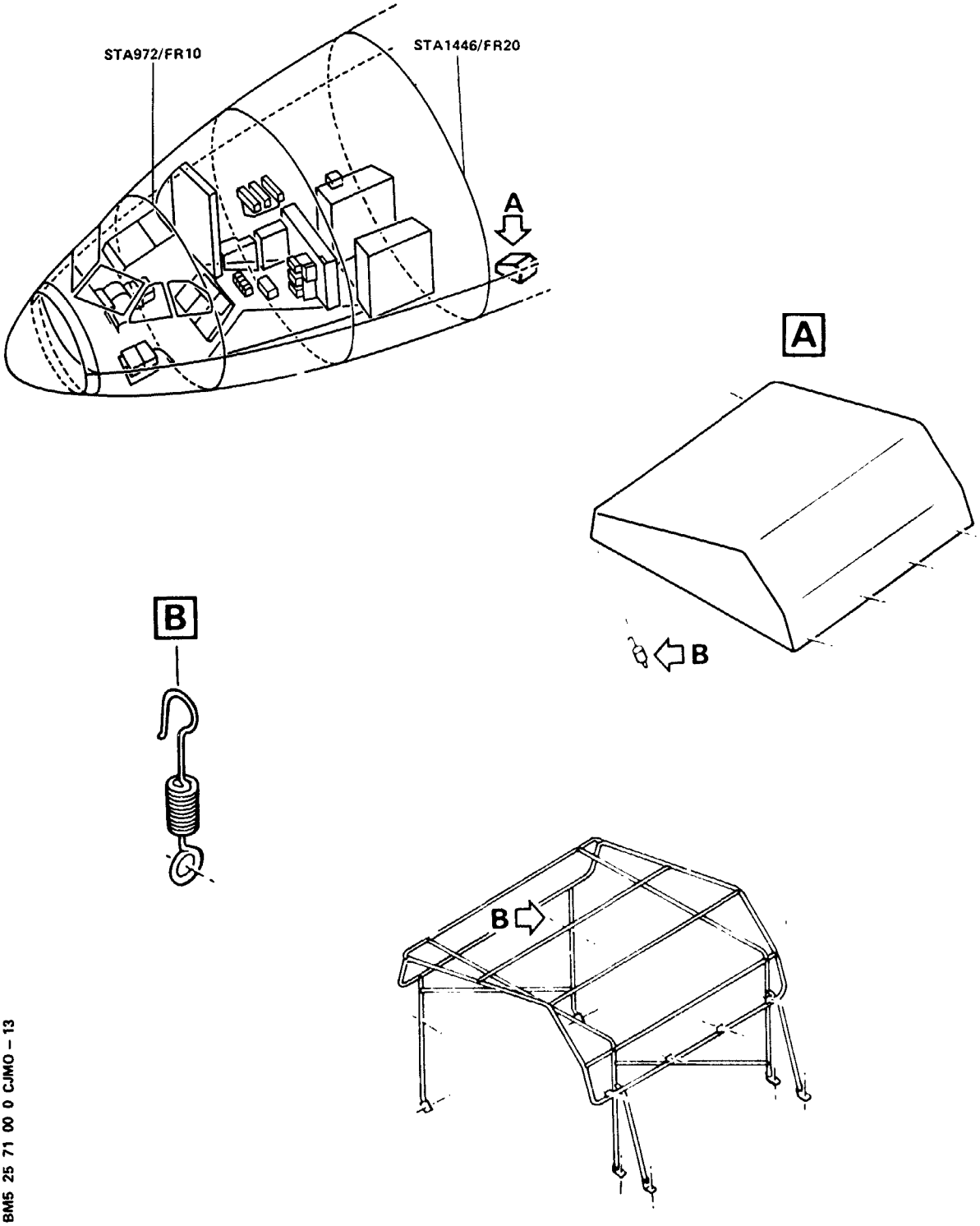
Plinth Panels Between FR17 and 20, Right Side
Figure 016

R




Protective Covers
Figure 017

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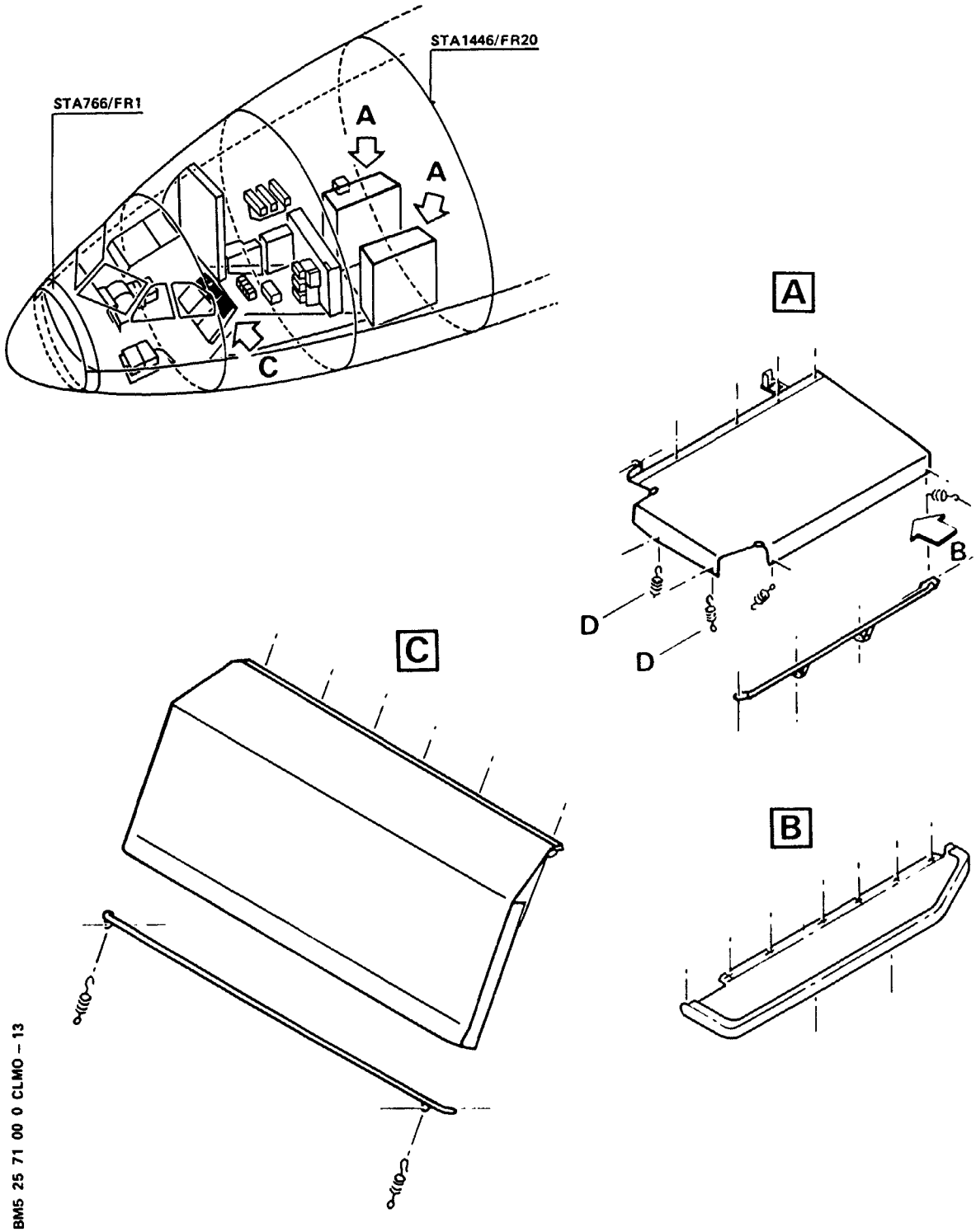
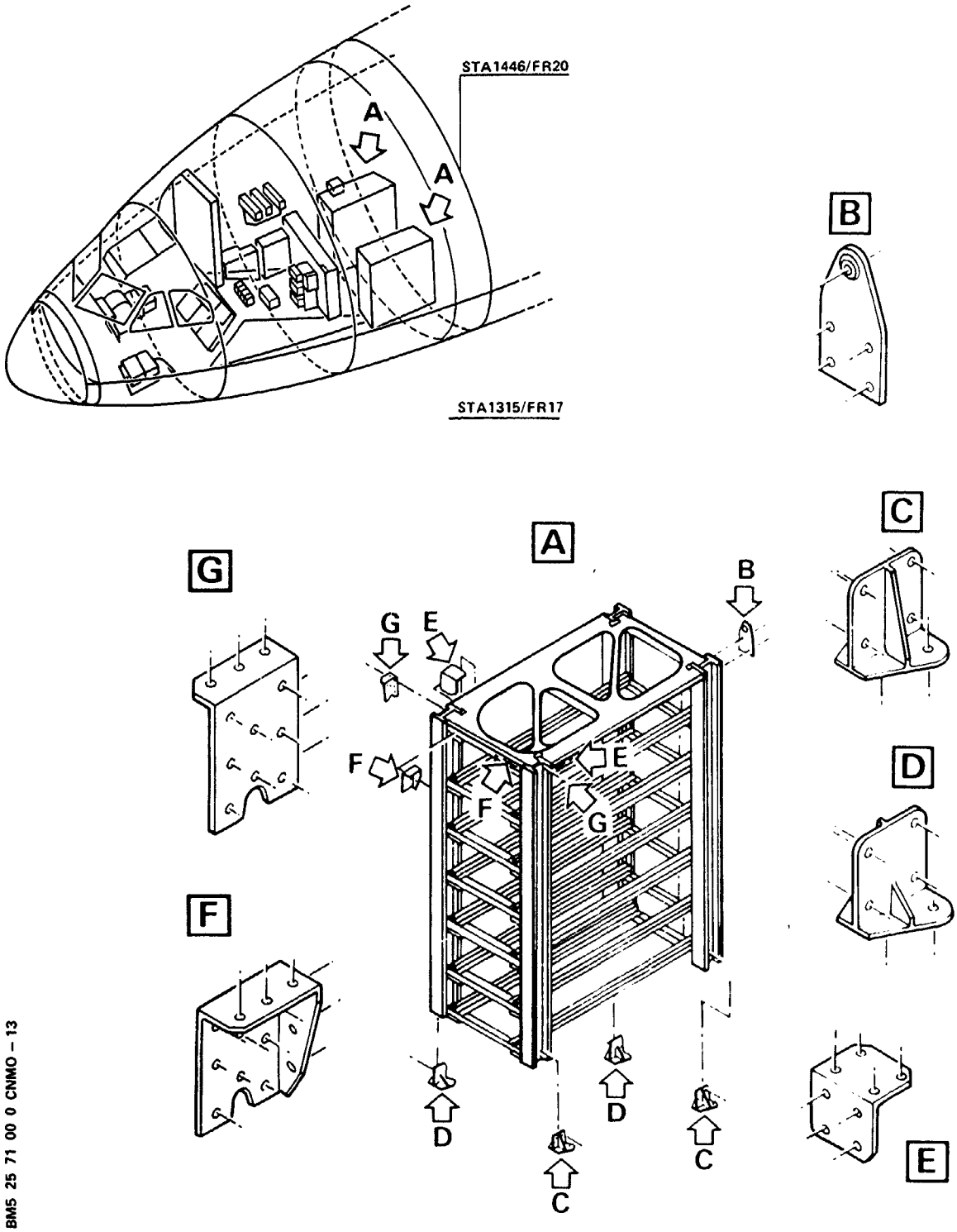
Protective Covers - Gyroscopic Unit and Supply Batteries
Figure 018




Protective Covers - Electronics Racks
Figure 019

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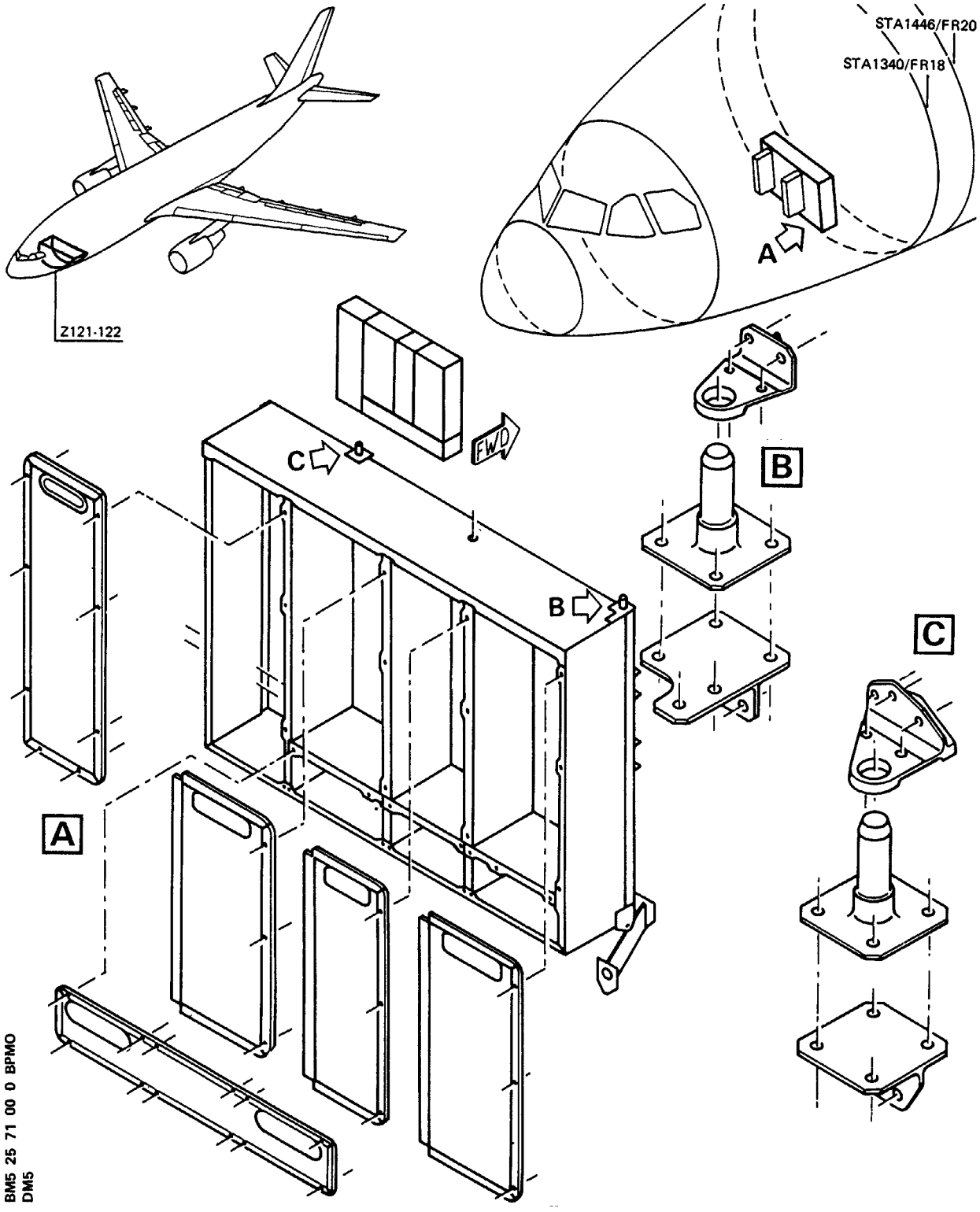
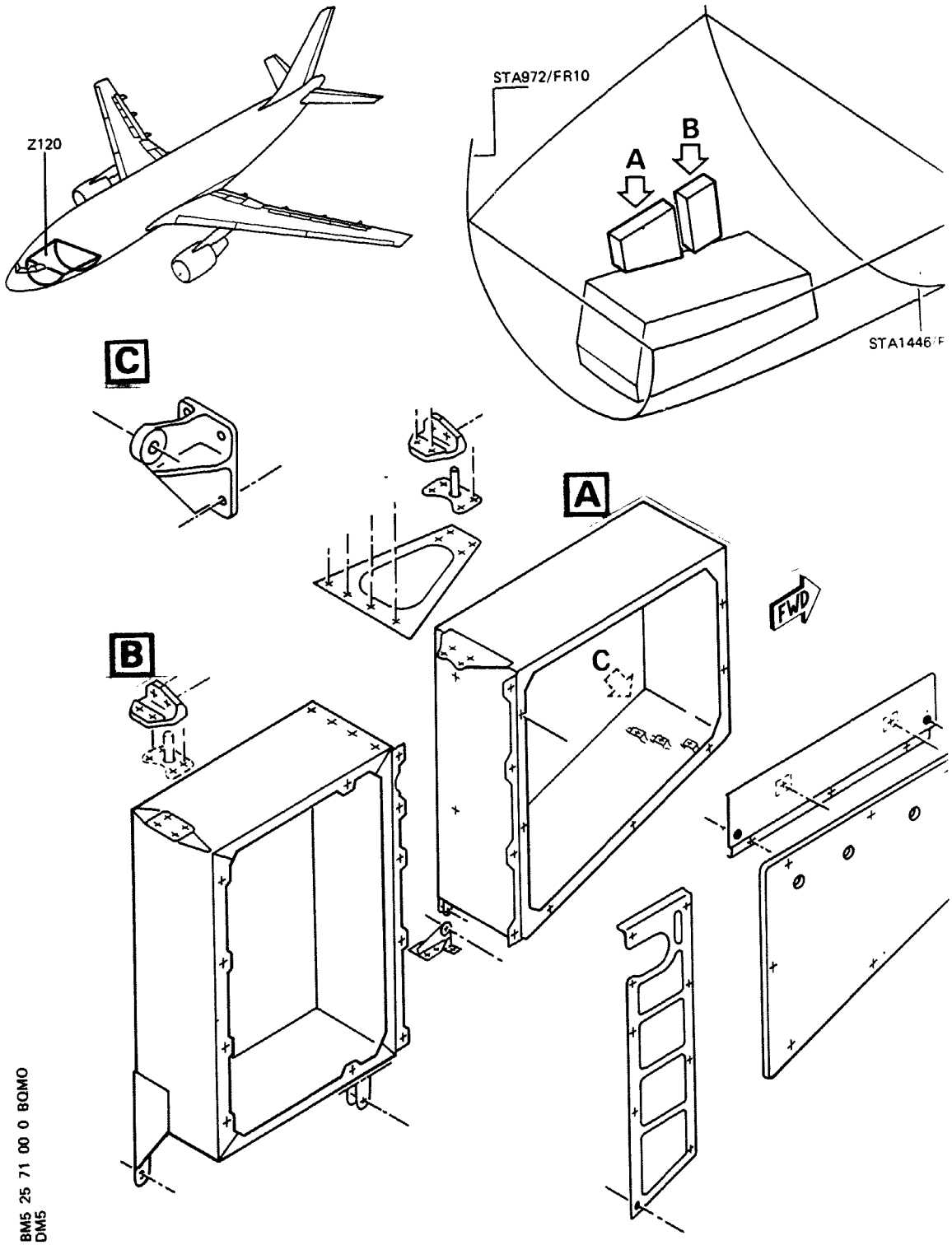
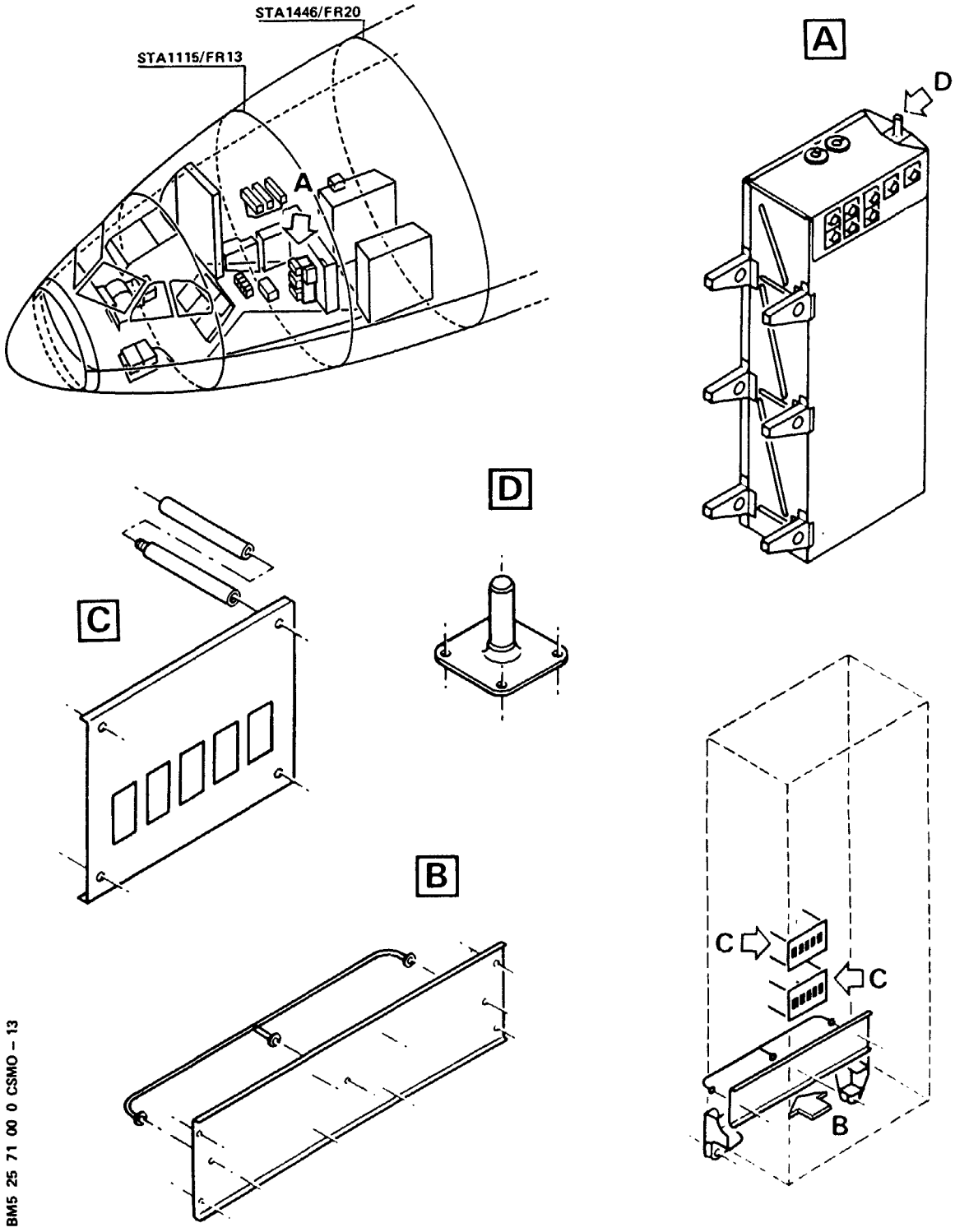
Electronics Racks 80VU, 90VU
Figure 020



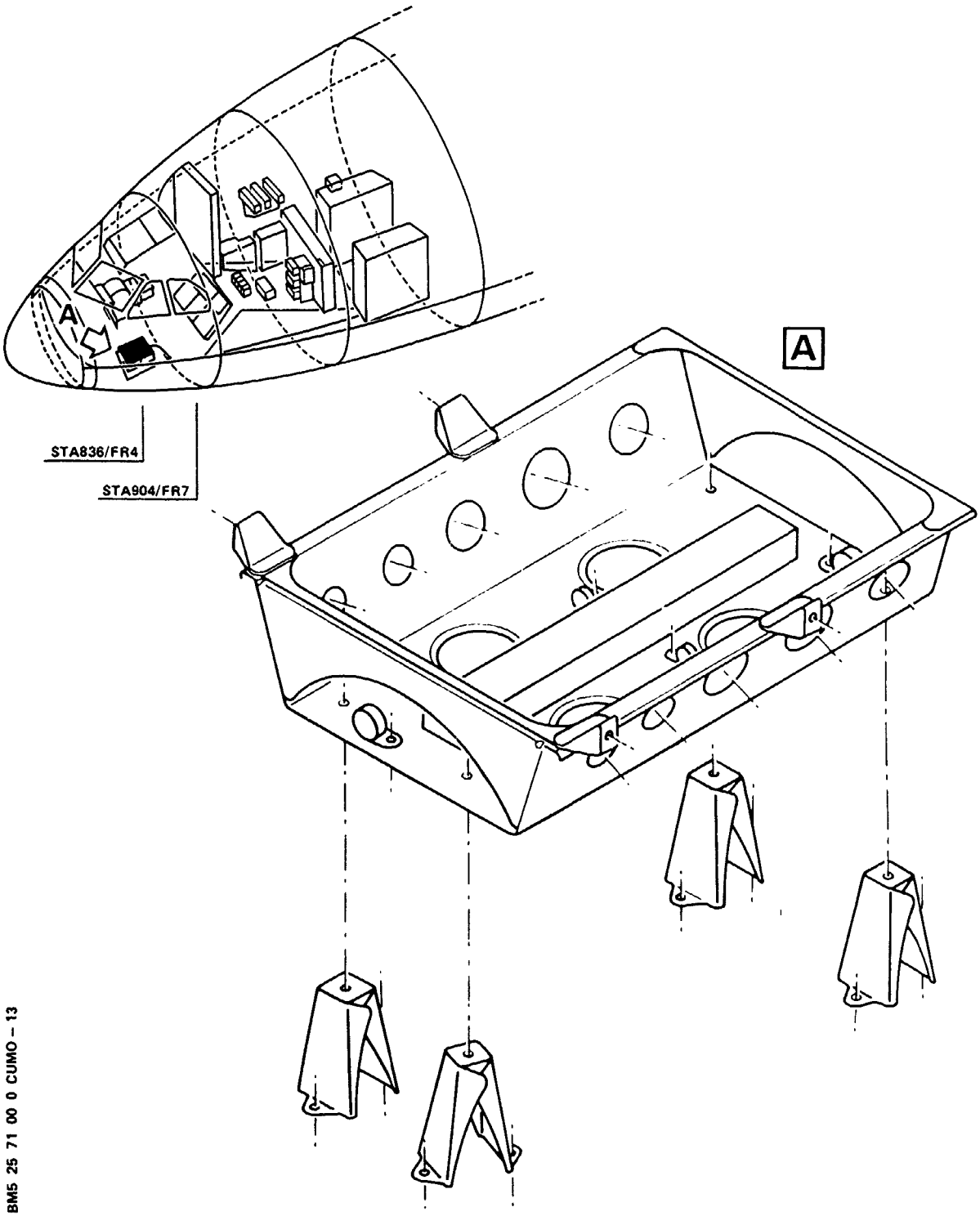

Generation Rack 101VU
Figure 021



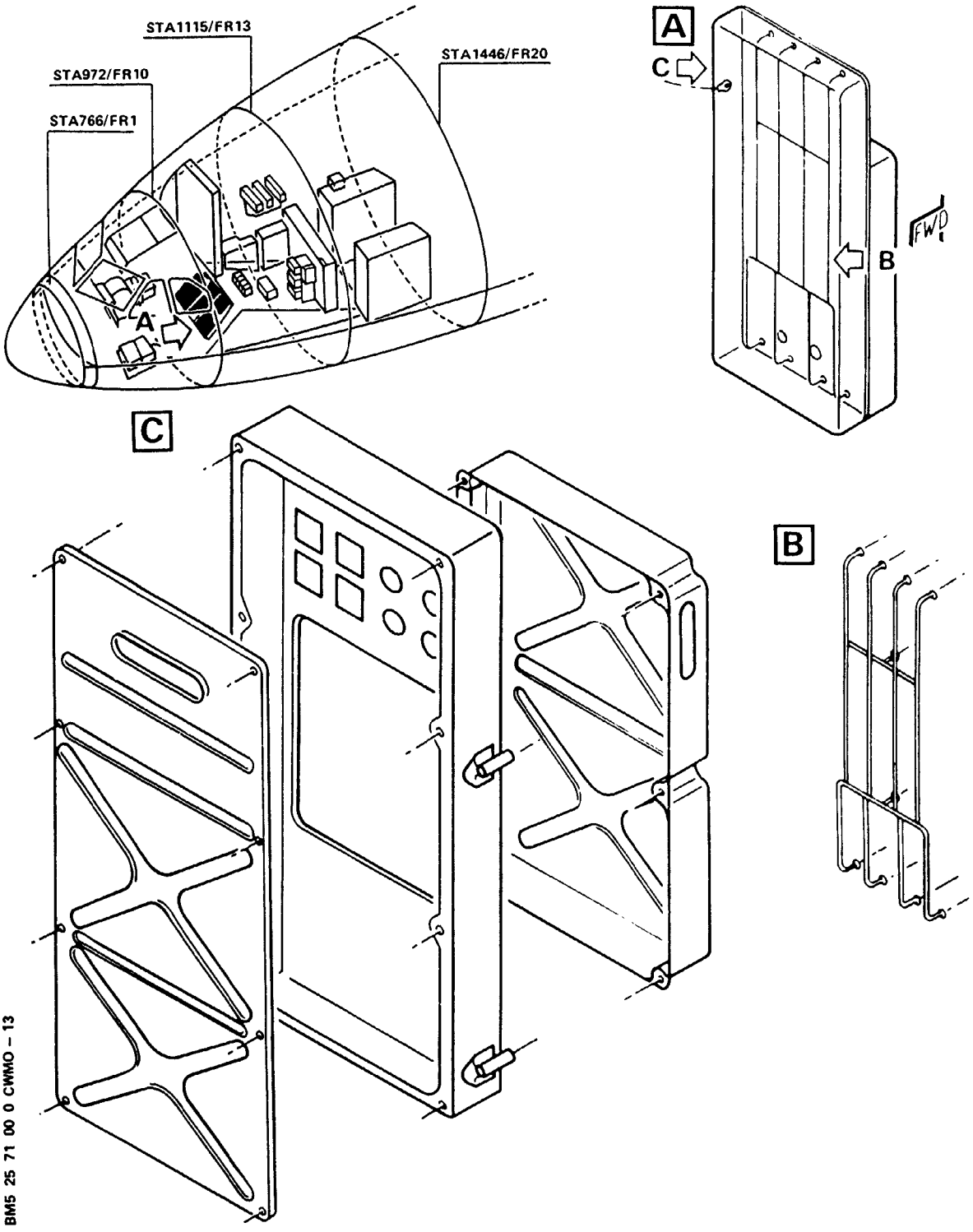

Generation Racks 106VU, 282VU
Figure 022




Relay Box 107VU
Figure 023




Junction Box 115VU
Figure 024




Relays Boxes 103VU, 104VU, 105VU
Figure 025

pins (B) which are attached to frames using nuts tightened by hand. Special fittings on the ends of these pins enable cross lacing of the nylon thread which maintains the insulation blanket in position.

C. Insulation Blankets
(Ref. Fig. 007)
(1)General
R The insulation blankets consist of one or more layers of glass-fibre wool
R (depending on installation area) in an aluminum foil envelope. This
R envelope acts as a seal against water vapor (cabin side) while allowing
R for air circulation (perforations on structure side). The insulation
R blanket is thermowelded.

D. Plinth Panels Between FR10 and FR20
R (Ref. Fig. 008, 009, 010)
R (Ref. Fig. 011, 012, 013)
R (Ref. Fig. 014, 015, 016)
(1)General
R The plinth panel assemblies between FR10 and FR20, on left side consist of light alloy finger swaged panels bolted to aircraft structure by means of U sections specifically installed for this purpose.
These panels, which form the joint between insulation blankets and floor panels are each equipped, on their lower edge, with a rubber strip. This rubber strip is installed, to improve sealing between the plinth panels and floor panels.
R The protective tubes between FR10 and FR20, on right side consist of
R square section tubes (protection of wiring routing and air conditioning
R system).

E. Protective Covers
(Ref. Fig. 017)
(1)General
The protective covers which are fitted to certain racks consist of a plastic sheet attached to a tubular metal frame by quick release springs. The frame is bolted to the upper part of the rack.
(a)Gyroscopic unit/supply batteries
(Ref. Fig. 018)
This protective cover assembly consists of :
- A protector (A) and metal frame for the gyroscopic unit supply batteries
- A protector (C) and metal frame for the battery assembly
- A protector (D) and metal frame for the gyroscopic unit
The protectors are attached to the frames by springs (B).
(b)Electronics racks
(Ref. Fig. 019)
This protective cover assembly consists of :
- A protector (A and B) and metal frame for the electronics racks
- A protector (C) and metal frame for the forward relay box
The protectors are attached to the frames by springs (D).

F. Rack Assemblies

(1)Electronics Racks 80VU - 90VU
(Ref. Fig. 020)
The electronics rack assemblies 80VU and 90VU consist of light alloy riveted and spotwelded frame assemblies forming six shelves upon which are installed the electrical and electronic equipment.
The upper part of each rack is attached to the frames under the passenger compartment floor by means of four attach fittings. The lower part is attached, by four attach fittings, to the lower fuselage frame.

(2)Generation Rack 101VU
(Ref. Fig. 021)
This assembly consists of a light alloy riveted structure on which removable panels are installed.
The upper part of the rack is attached to the aircraft structure by means of two stud and housing attach fitting assemblies, the lower part, by two attach fittings on the lower fuselage frame.

(3)Generation Racks 106VU, 282VU
(Ref. Fig. 022)
Generation rack 282VU and 106VU assemblies consist of a light alloy and fibreglass spotwelded and riveted structure. Both racks are equipped with a removable front panel.
The upper part of each rack is attached to the aircraft structure by means of an attach fitting, the lower part, by two attach fittings on the lower fuselage structure. A joint plate, between the two racks is installed on the upper structure.

(4)Relay Box 107VU
(Ref. Fig. 023)
This assembly, a light alloy and fibreglass spotwelded and riveted structure, is attached by means of an attach fitting, to the structure of rack 101VU. The lower part of the relay box is attached to the lower fuselage structure by two attach fittings.

(5)Junction Box 115VU
(Ref. Fig. 024)
A light alloy spotwelded and riveted assembly, this rack is attached to the lower fuselage structure by four mounting brackets.

(6)Relay boxes 103VU, 104VU, 105VU
(Ref. Fig. 025)
These relay boxes consist of light alloy spotwelded and riveted structures, each consisting of a body, a casing and a cover plate. Inside each relay box, a fixed grille framework is installed for the attachment of cables and cable bundles
Four bolts ensure the attachment of the racks to the aircraft structure.

1. Reason for the Job
Replacement of an insulation blanket after removal of an insulation or junction panel

2. Procedure
(Ref. Fig. 401)

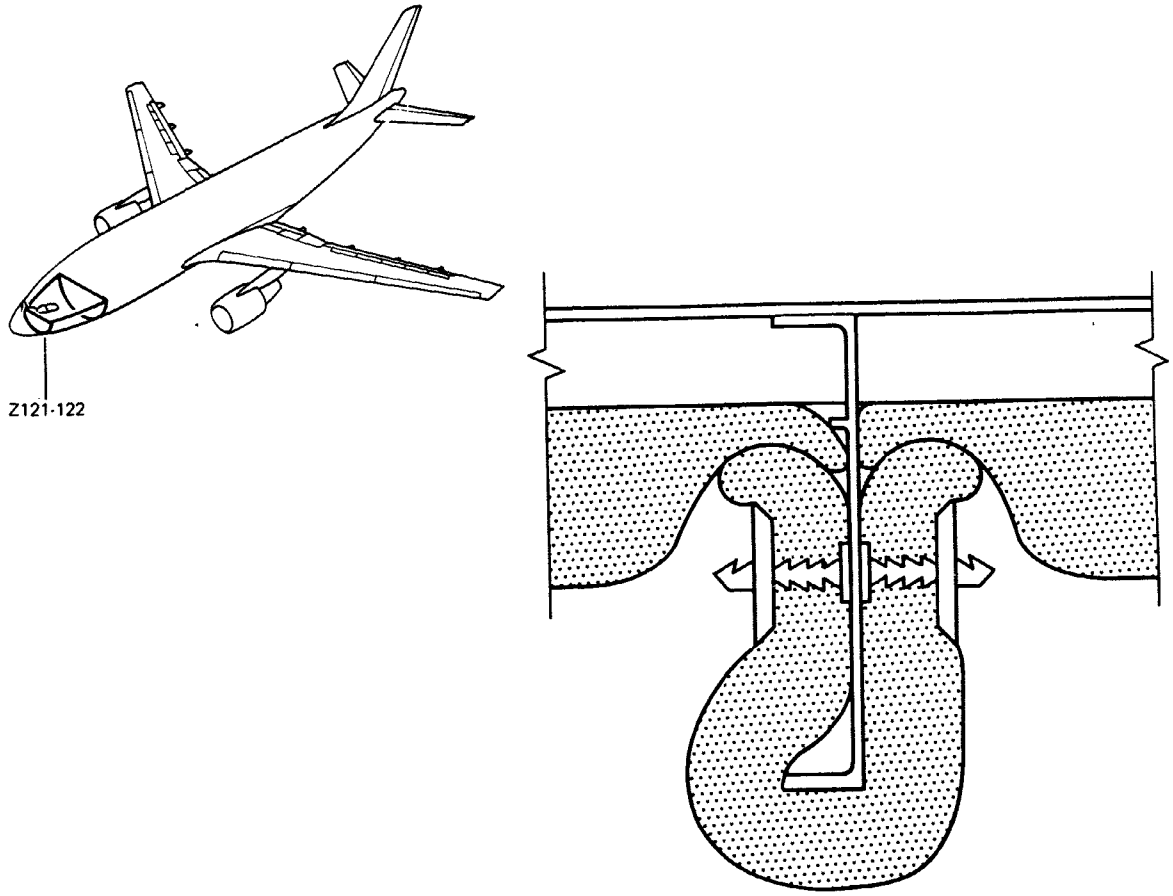
A. Job Set-Up
(1)If the insulation blanket to be removed is situated under an insulation or junction panel, remove this panel.

B. Removal
(1) Remove retaining thread.
(2)Remove damaged blanket.

C. Preparation of Replacement Component
(1)Check that insulation blanket is clean, in good condition and correctly identified.
NOTE : The part number indicates the installation position.

D. Installation
NOTE : Position insulation blanket so that identification is visible
(1)Make certain that insulation blanket attachment supports are not damaged.
(2)Position blanket.
(3)Cross lace insulation blanket retaining thread.

E. Close-Up
(1)Install circulation or junction panel
(2)Make certain that working area is clean and clear of tools and miscellaneous items of equipment




Heat and Sound Insulation
Figure 401

## HEAT AND SOUND INSULATION - INSPECTION/CHECK

1. Reason for the Job
   Visual inspection of insulation blanket or insulation and junction panel

2. Procedure

   A. Inspection/Check
      (1)Make sure that insulation blankets are clean, not torn and are not soaked with liquid.
      (2)Check that "Velcro" tape on attach fittings still adheres correctly.
      (3)Make certain that attachment studs are not broken.
      (4)Check that nylon threads support insulation blankets correctly.
      (5)Make certain that insulation and junction panels are not broken and are correctly attached.

   B. Repair
      Repair of insulation blanket is covered in 25-00-00, P. Block 801.

## ATTACHMENT ASSEMBLY - REMOVAL/INSTALLATION

1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform 2.8 m (9 ft. 2in.) |

2. Procedure

NOTE : Make sure that nuts (5) remain in position on supports (4).

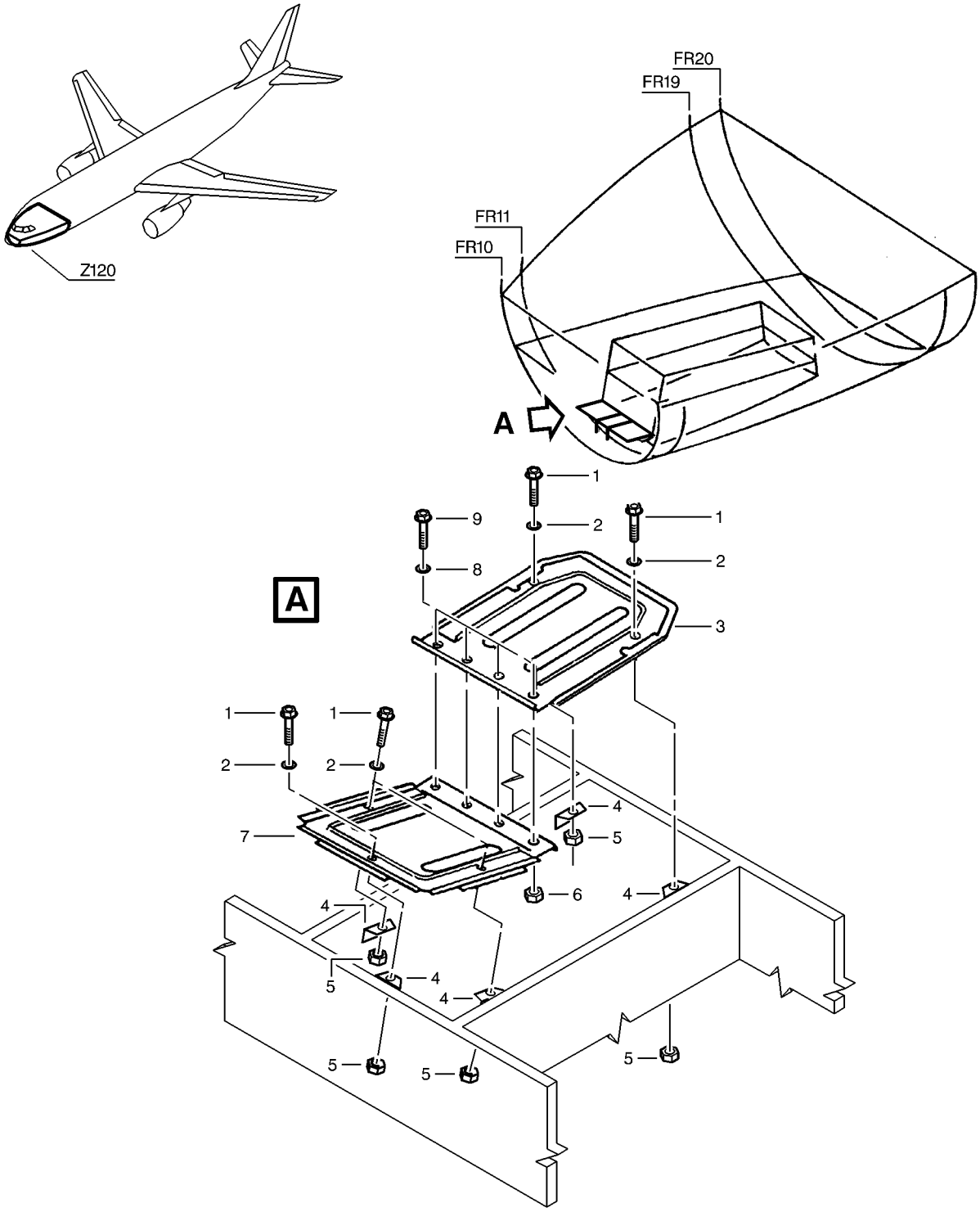
(Ref. Fig. 401)

A. Job Set-Up
(1)Put access platform in position at forward cargo compartment door 811.
(2)Open forward cargo compartment door 811.
(3)Open access door 132AZ between cargo and avionics compartments.

B. Removal
(1)Remove the five screws (1) and washers (2).
(2)Remove shield (3) and shield assy (7).
(3)If necessary, remove the four nuts (6), screws (9) and washers (8) to separate shield (3) and shield assy (7).

C. Installation
(1)If shield (3) and shield assy (7) are separated, install the four washers (8), screws (9) and nuts (6).
(2)Tighten the four nuts (6).
(3)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(4)Install shield (3) and shield assy (7) on supports (4).
(5)Install the five washers (2) and screws (1).
(6)Tighten the five screws (1).

D. Close-Up
(1)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(2)Close access door 132AZ between cargo and avionics compartments.
(3)Close forward cargo compartment door 811.
(4)Remove access platform.

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Attachment Assembly
Figure 401

# WHEEL WELL HEAT AND SOUND INSULATION - DESCRIPTION AND OPERATION

## 1. General

This insulation limits heat transfer between the forward and aft cargo compartments and landing gear well and reduces noise transfer, from exterior to interior of the aircraft to an acceptable level.
Underfloor pressurized area ventilation is facilitated by the installation of panel assemblies between FR46 and FR54.

## 2. Description

(Ref. Fig. 001, 002, 003)
(Ref. Fig. 004, 005, 006)

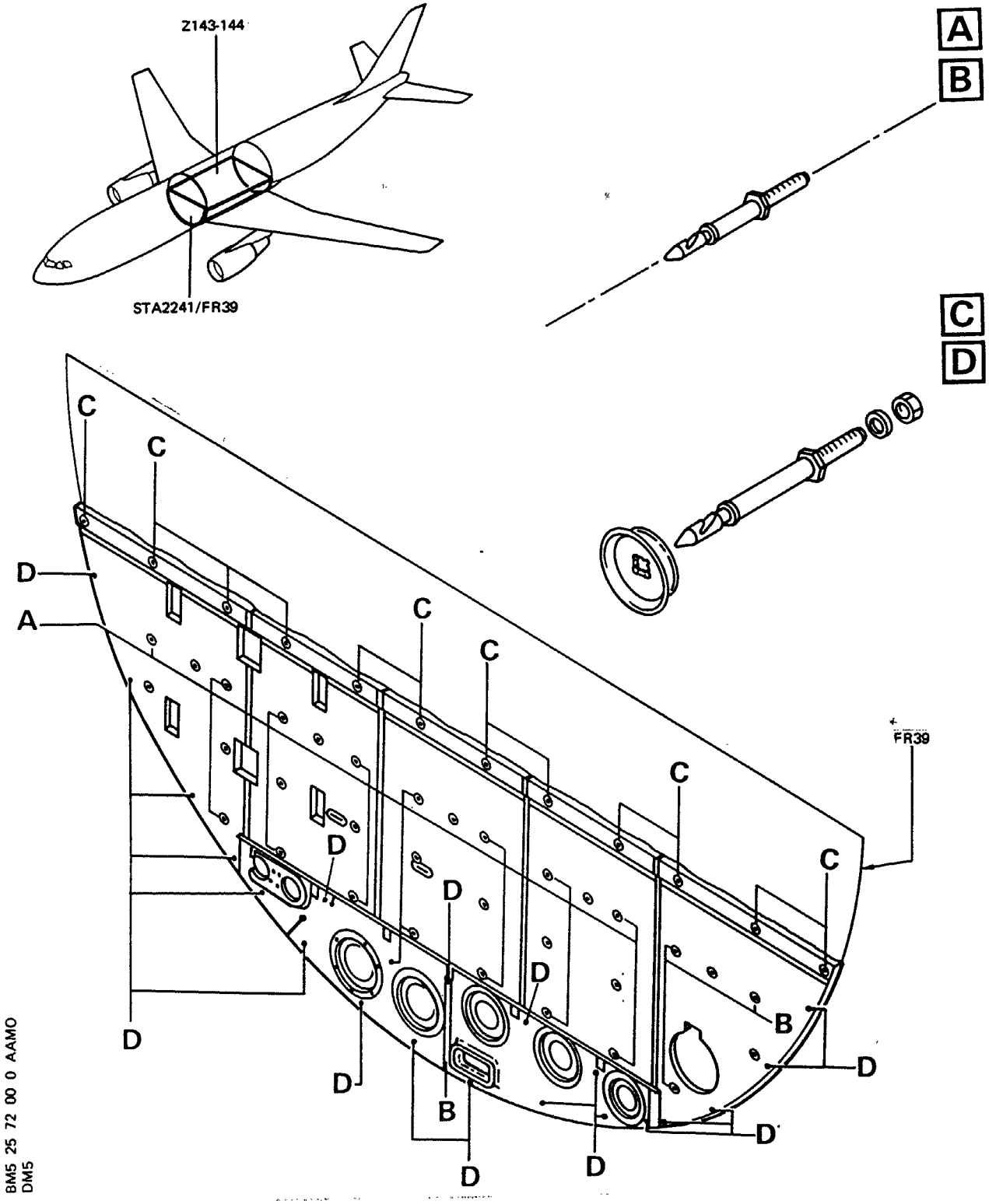
| ITEM | NAME | PANEL ZONE | ACCESS DOOR |
|---|---|---|---|
| Ins 1 | Insulation Assembly on Forward Face of FR39 | 140 | |
| Ins 2 | Insulation Assembly on Pressurized Floor Panels Between FR39 and 40 | 140 | |
| Ins 3 | Insulation Assembly on Aft Face of FR54 | 140 | |
| Ins 4 | Insulation Assembly on Wing Center Box | | |
| | Between FR40 and FR41 | 140 | |
| Pan 1 | Ventilation Panels on Pressurized Floor Between FR40 and 47 | 140 | |
| Pan 2 | Ventilation Panels on Pressurized Floor Between FR49 and 51 | 140 | |

## 3. Insulation

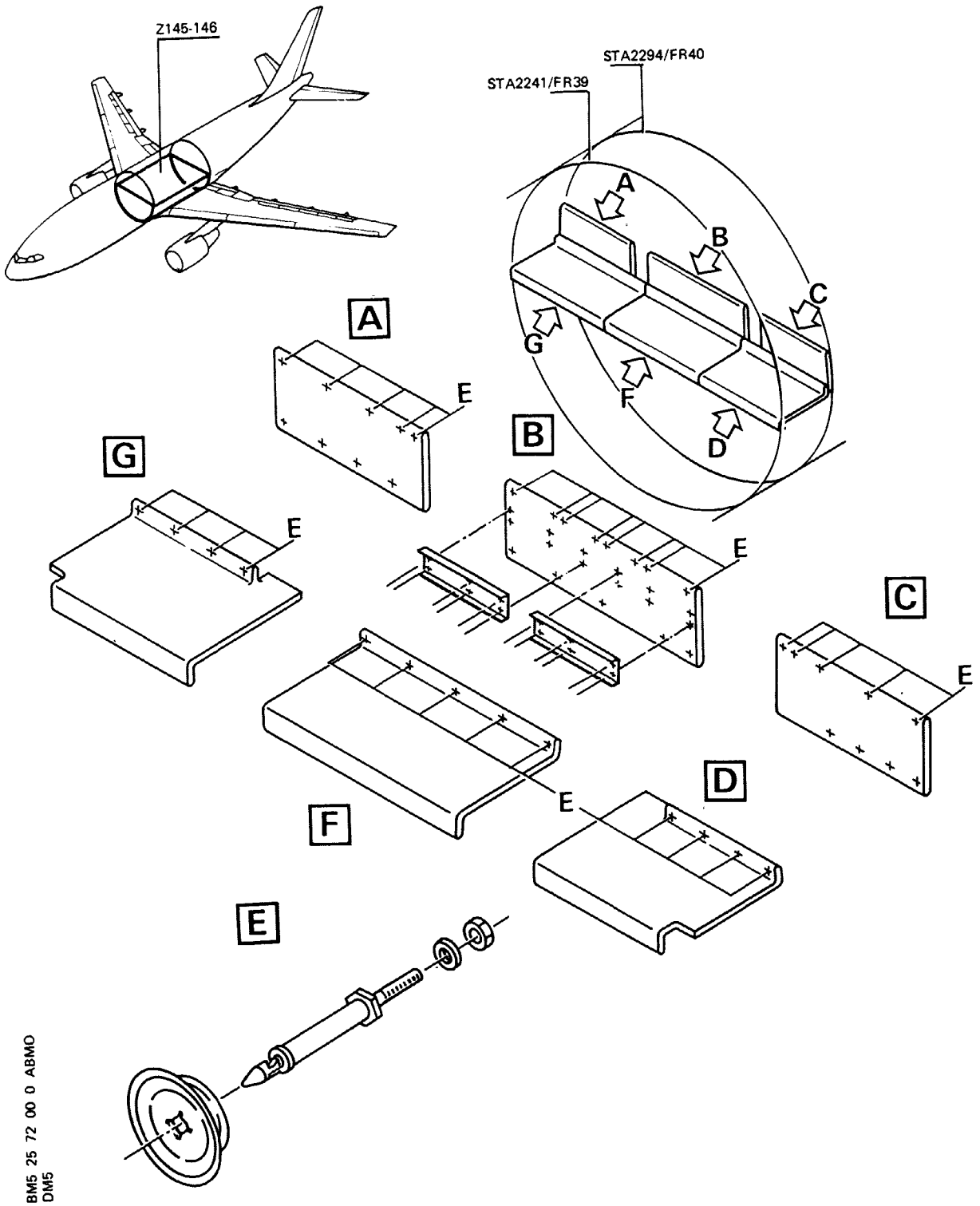
The insulation is acheived by the installation of insulating blankets which consist of one or more layers of glass fibre wool (depending on installation area), in an aluminium foil envelope.
The exterior of this envelope is perforated to allow the circulation of air through the glass fibre wool and the interior acts as a seal against water vapor. The assembly of the blanket is achieved by a thermoweld process.

### A. Insulation on Forward Face of FR39

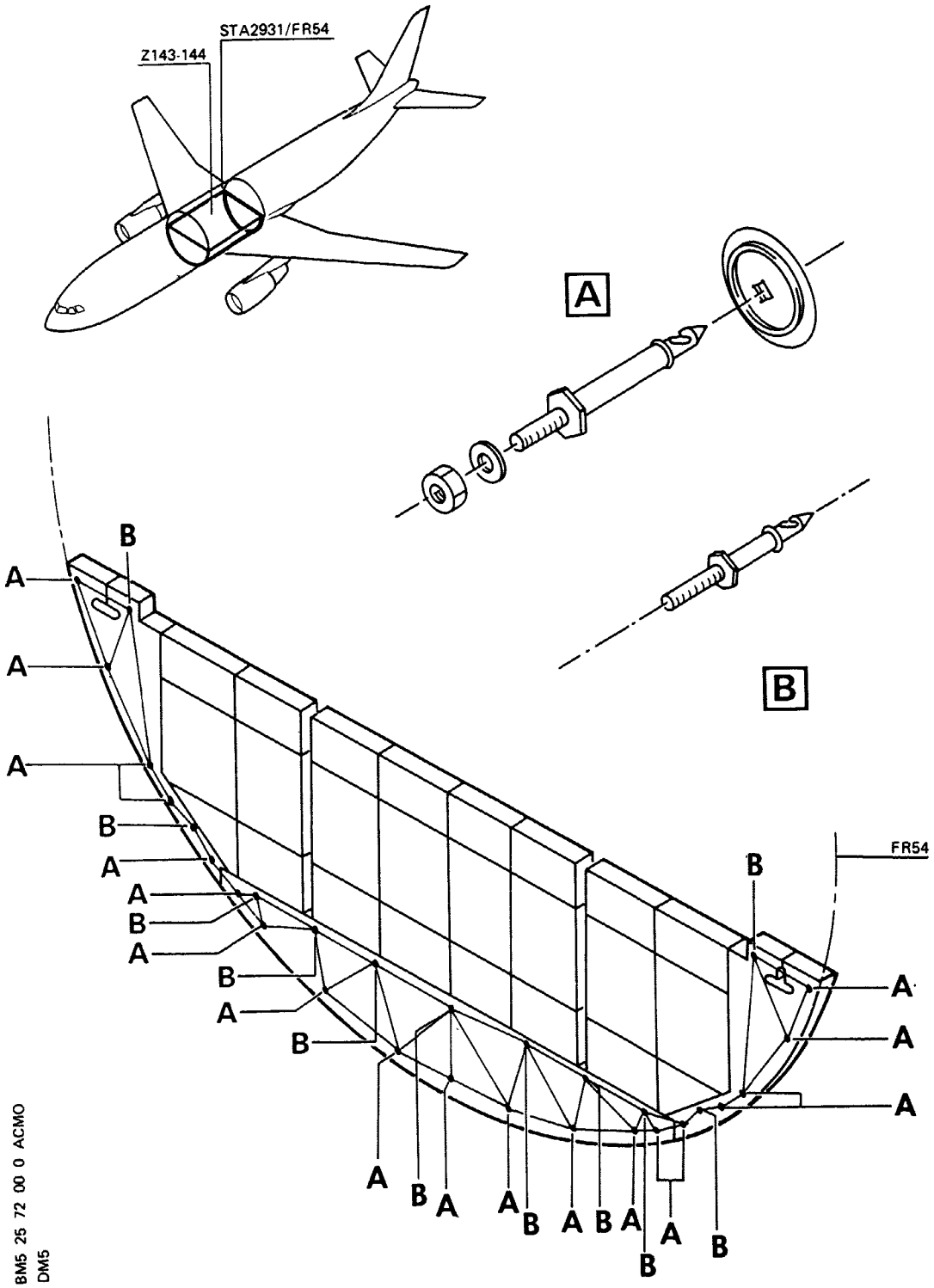
(Ref. Fig. 001)
(Ref. Fig. 007)
These insulation blankets contain one layer of glass fibre wool and their outer faces are protected by glass fibre panels.
The blankets are attached to FR39 by attachment studs. The attachment studs are in turn attached to supports, specially installed for this purpose and are secured by hand tightened nuts.
The blankets are also attached to the glass fibre panels by attachment studs equipped with a retainer and a glass fibre cup washer.
The blanket overlaps are attached to each other by plastic studs, Velcro



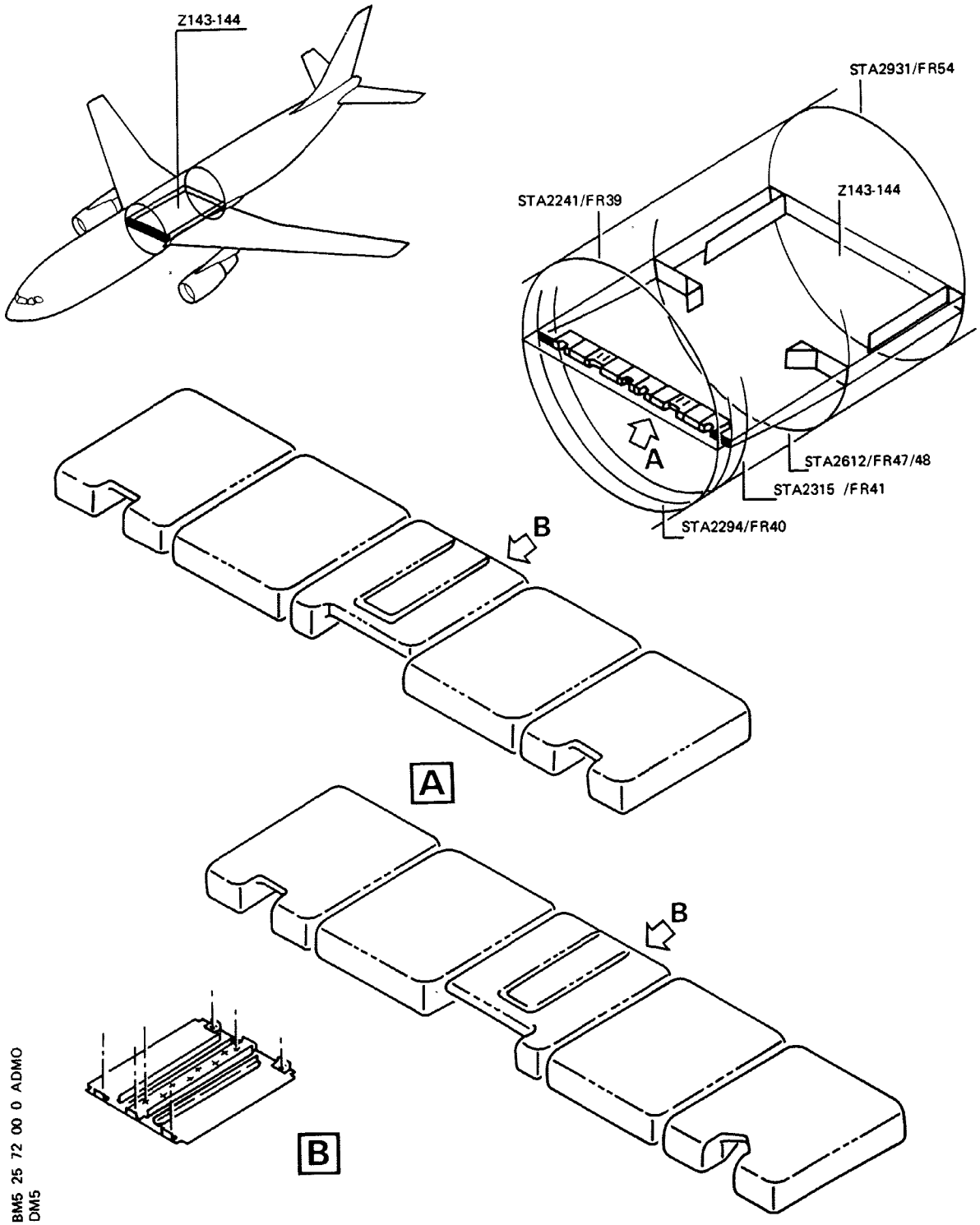

Insulation - FR39 Forward Face
Figure 001



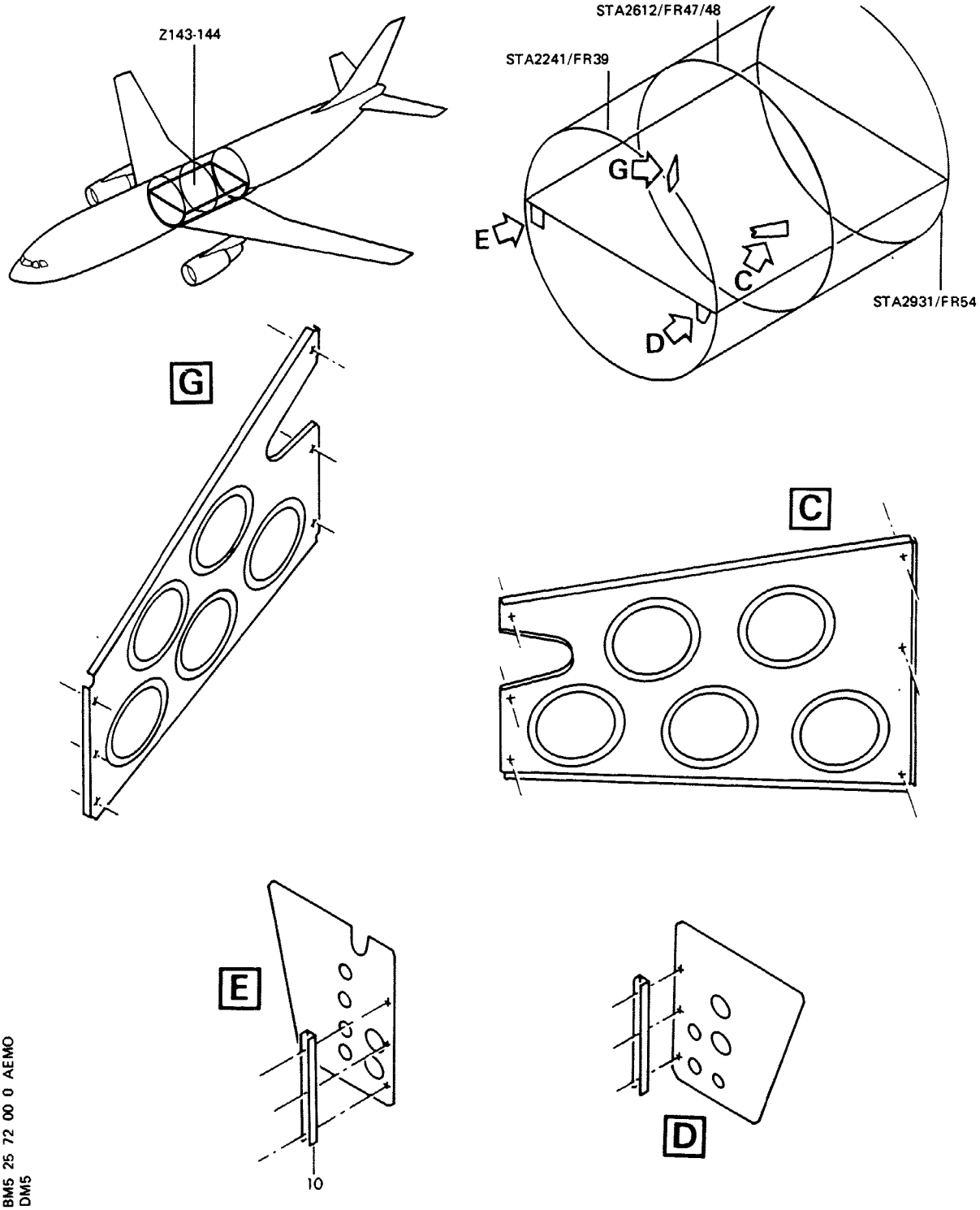

Insulation - Pressurized Floor between FR39 and FR40
Figure 002




Insulation - FR54 Aft Face
Figure 003




Insulation - Wing Center Box, between FR40 and FR41
Figure 004

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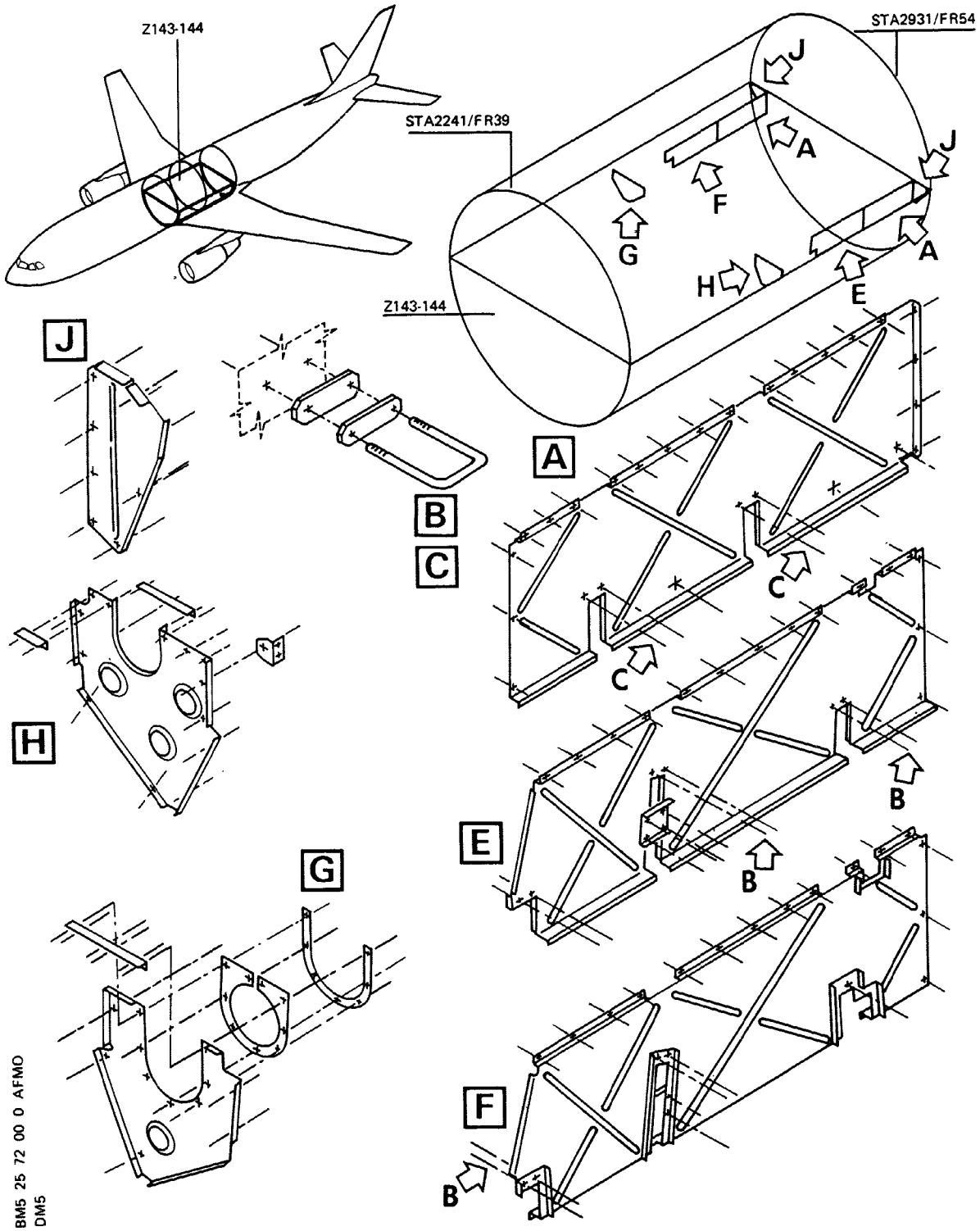
Ventilation Panels - FR40 to FR47
Figure 005




Ventilation Panels - FR49 to FR51
Figure 006

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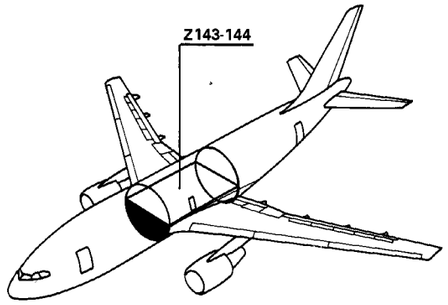


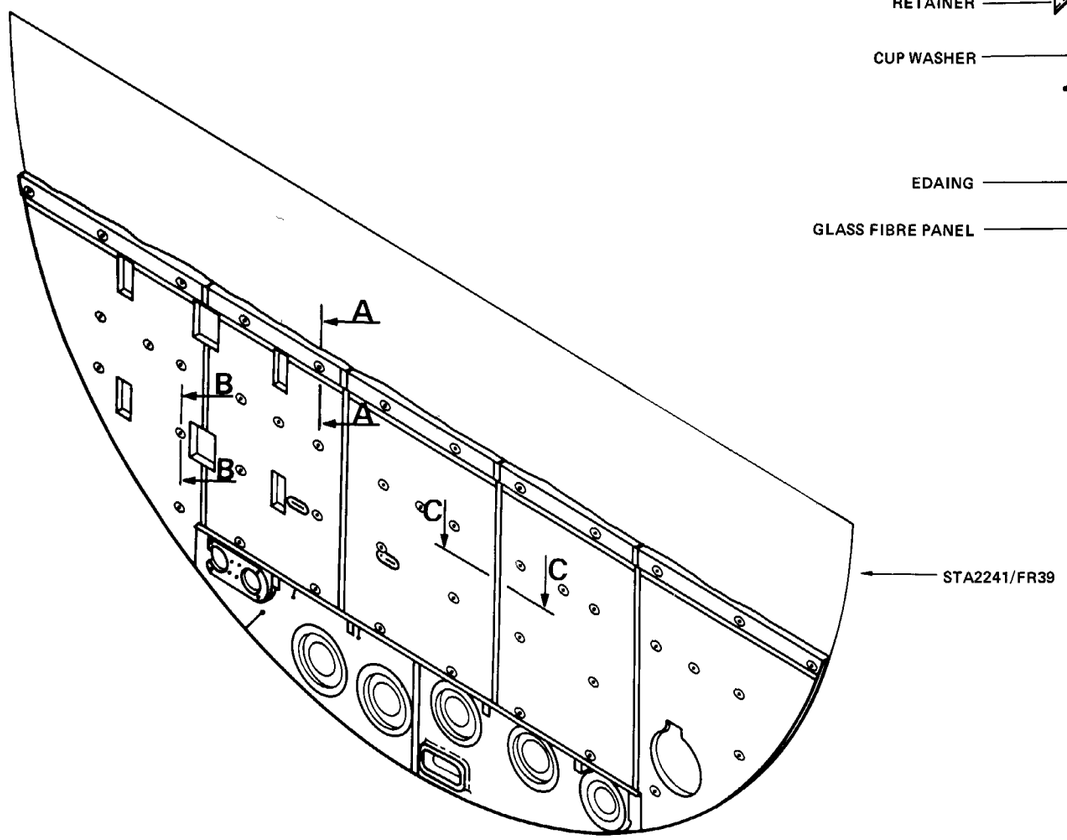


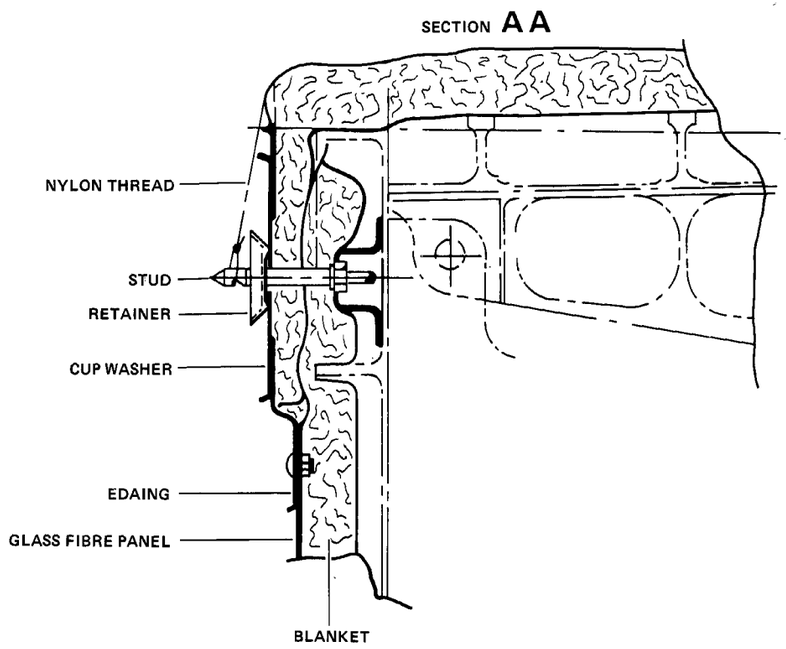


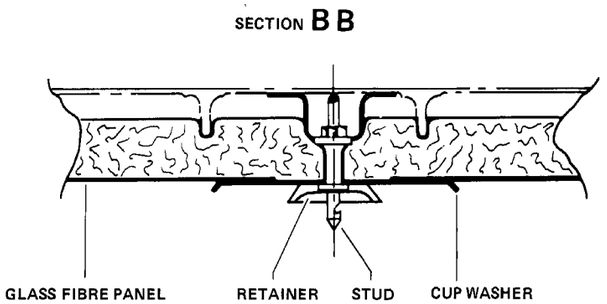


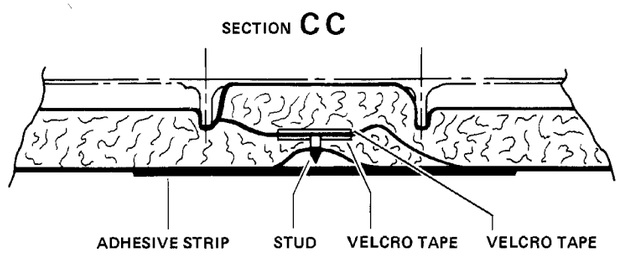


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Insulation Blanket on Forward Face of FR39
Figure 007

tapes and adhesive strips.

B. Insulation on Pressurized Floor, Between FR39 and FR40
(Ref. Fig. 002)
These insulation blankets consist of two layers of glass fibre wool. They are attached to landing gear well floor between FR39 and FR40 and to the upper forward face of FR40.
The blankets are attached by attachment studs :
- to upper part of FR39
- to floor panels, forward of FR40
- to forward face of FR40.
They are maintained in position by cross laced nylon thread.

C. Insulation on Wing Center Box Between FR40 and FR41
(Ref. Fig. 004)
These insulation blankets consist of two layers of glass fibre wool.
The blankets are attached by attachment studs to the upper part of FR40 and are held in position on this frame and center box by nylon threads cross laced between the studs and supports specially installed for this purpose.

D. Insulation on Forward Face of FR54
(Ref. Fig. 003)
These insulation blankets consist of one layer of glass fibre wool.
The blankets are attached by attachment studs to the lower right and left parts of FR54 and are maintained in position on the frame by cross laced nylon thread. The blankets, mainly rectangular in shape, are installed between the panel stiffeners on the frame and are secured when the cargo compartment lining panels are installed.

E. Ventilation Panels on Pressurized Floor Between FR40 and FR47
(Ref. Fig. 005)
This panel assembly consists of rubber closing panels installed on right and left FR40 and light alloy panels installed diagonally between FR40 and FR47 and portals on right and left sides. Lightening holes pierced in these panels allow circulation of air in the ventilation zone.

F. Ventilation Panels on Pressurized Floor Between FR49 and FR51
(Ref. Fig. 006)
This panel assembly, consisting of four stiffened panels, forms a partition between the upper part of the main landing gear well and the pressurized floor. The upper parts of the panels are attached to the underfloor portals and the lower parts to portal webs by U-bolts.

## VENTILATION PANELS - FRAME 47 - APPROVED REPAIRS

**WARNING** : SOLVENT (MATERIAL NO.11-003 IS DANGEROUS AVOID INHALING FUMES.
USE IN WELL VENTILATED AREA ONLY.
SOLVENT (MATERIAL NO.11-003) IS HIGHLY FLAMMABLE.
SOLVENT (MATERIAL NO.11-003) IS A SKIN IRRITANT. WEAR PROTECTIVE GLOVE OR USE A BARRIER CREAM. WASH IMMEDIATELY, WITH CLEAN WATER, IF SKIN IS SPLASHED WITH SOLVENT.

### 1. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| (a) | Lint-Free Cloth |
| (b)Material No. 11-003 | Cleaning Agents (Ref. 20-31-00) |
| (c)Material No. 08-029A | Adhesive (Ref. 20-31-00) |
| (d) | Reamer |
| Referenced Procedure SRM 51-22-00 | Corrosion Prevention |

### 2. Procedure

(Ref. Fig. 801)

(a)Prepare ventilation panel for repair.

1 Remove ventilation panel to be repaired.

2 Drill and ream damaged hole to diameter 9.51 mm (0,3744 in.) ± 0,02 mm (± 0,0001 in.).

3 Touch up reamed area with protective material (Ref. SRM 51-22-00)

4 Clean bore with cleaning agent using a lint-free cloth (Material No. 11-003).

5 Make ring (1) to the following specification :

R

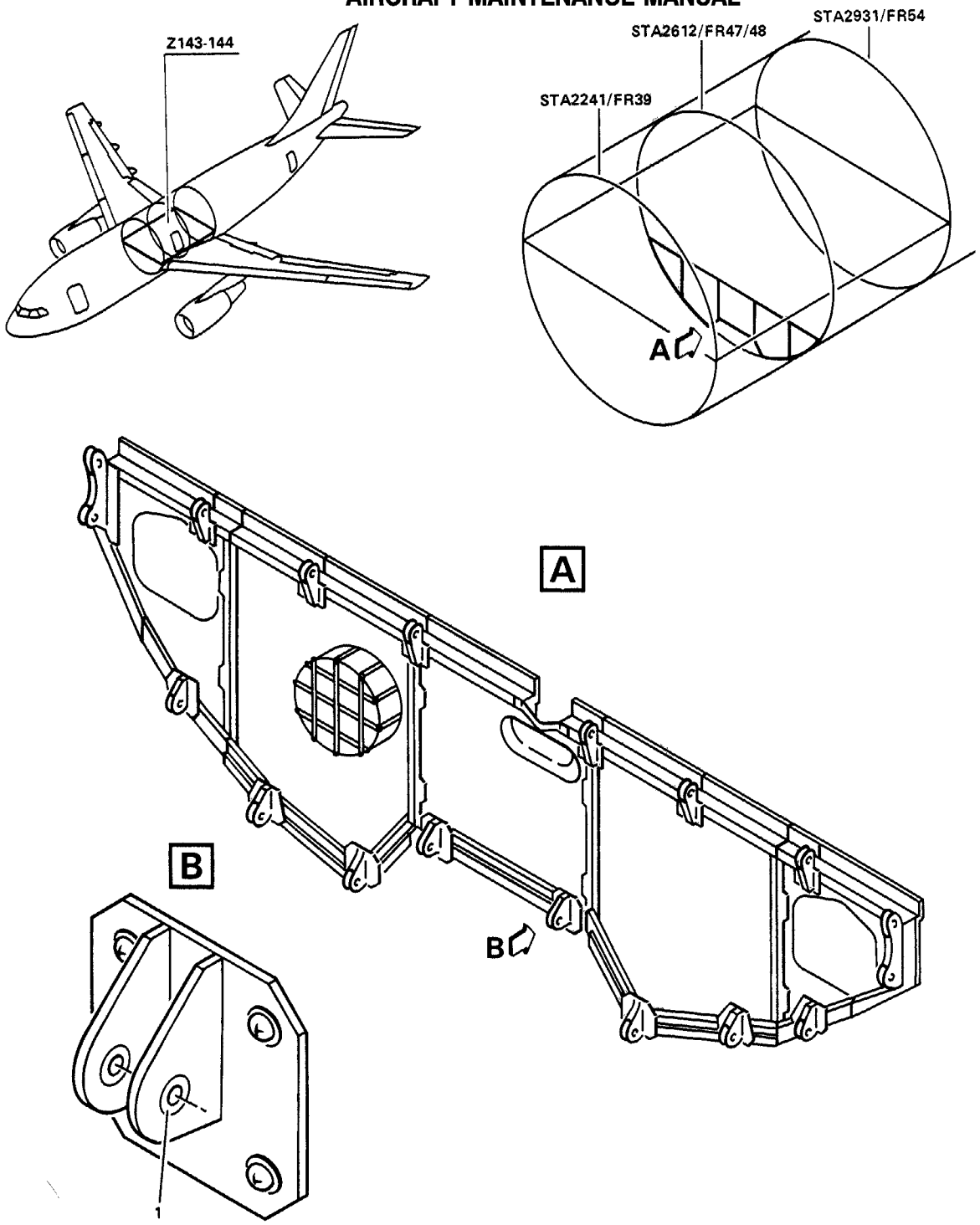
| | | | |
|---|---|---|---|
| Material | : Cu Be 1.9 or Al-Ni-Bronze (AMS 4640). | | |
| Inner diameter | : 6,5 mm | + 0,1 | (0,2559 in. + 0,0004) |
| | | + 0 | ( + 0 ) |
| Outer diameter | : 9,5 mm | - 0,05 | (0,3740 in. - 0,002 ) |
| | | - 0,02 | ( - 0,008 ) |
| Thickness | : 3 mm | | (0,1181 in.) |

Apply adhesive Material No. 08-029A to bore and engage ring (1).
Allow to dry for 3 hours.

(b)Close-up

1 Install ventilation panel in aircraft.

2 Make certain that working area is clean and clear of tools and miscellaneous items of equipment.




Ventilation Panels - Frame 47
Figure 801

WARNING : CHECK THAT THE LANDING GEAR GROUND SAFETIES INCLUDING WHEEL CHOCKS ARE IN POSITION.
MAKE CERTAIN THAT FIRE FIGHTING EQUIPMENT IS READILY AVAIBLE AND IN PROXIMITY TO THE WORK AREA.
BEFORE UNDERTAKING MAINTENANCE OPERATIONS ON THE FUEL SYSTEM, THE PRESCRIBED SAFETY PRECAUTIONS MUST BE STRICTLY OBSERVED (REF. 28-00-00, P. BLOCK 301).

1. Reason for the Job
Removal of access panels (147CZ, 148CZ).

2. Equipment and Materials

| ITEM | DESIGNATION |
|---|---|
| A. | Access Platform 2.5 m (8 ft 3 in.) |
| B. | Circuit Breaker Safety Clips |
| Referenced Procedures | |
| - 28-00-00, P. Block 301 | Safety Precautions |
| - 32-12-11, P. Block 301 | Main Gear Main Door - (Ground Door(s) Opening) |

3. Procedure
(Ref. Fig. 401)
(Ref. Fig. 402)

A. Job Set-Up
(1)Open, safety and tag the following circuit breakers :

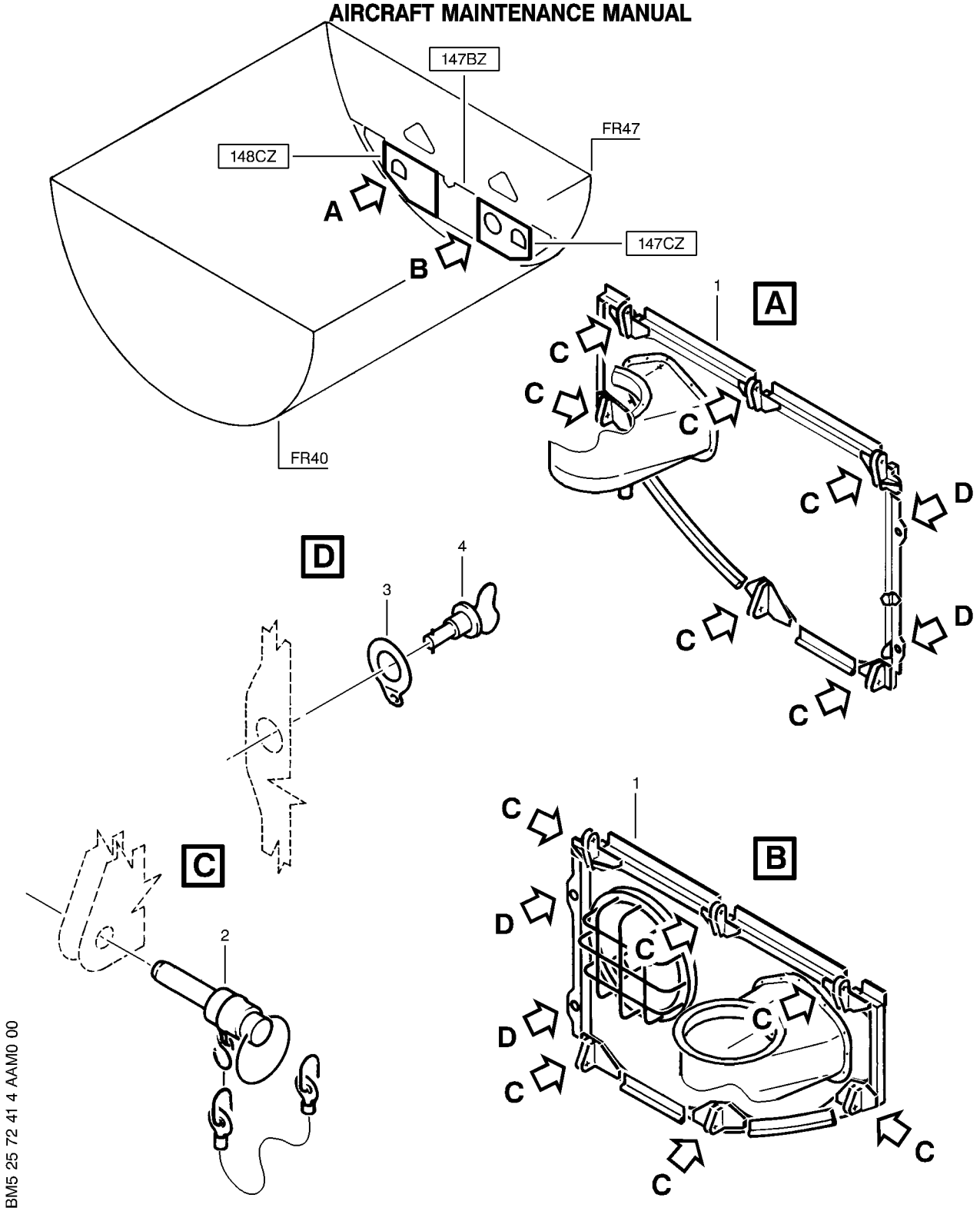
| PANEL | SERVICE | IDENT. | LOCATION |
|---|---|---|---|
| 132VU | FUEL/CTR TK/L/PUMP/CTL | 63QA | 322/N58 |
| 132VU | FUEL/CTR TK/R/PUMP/CTL | 64QA | 322/M59 |

(2)Open main landing gear doors (Ref. 32-12-11, P. Block 301).
(3)Position access platform.
(4)Open access door 147BZ.

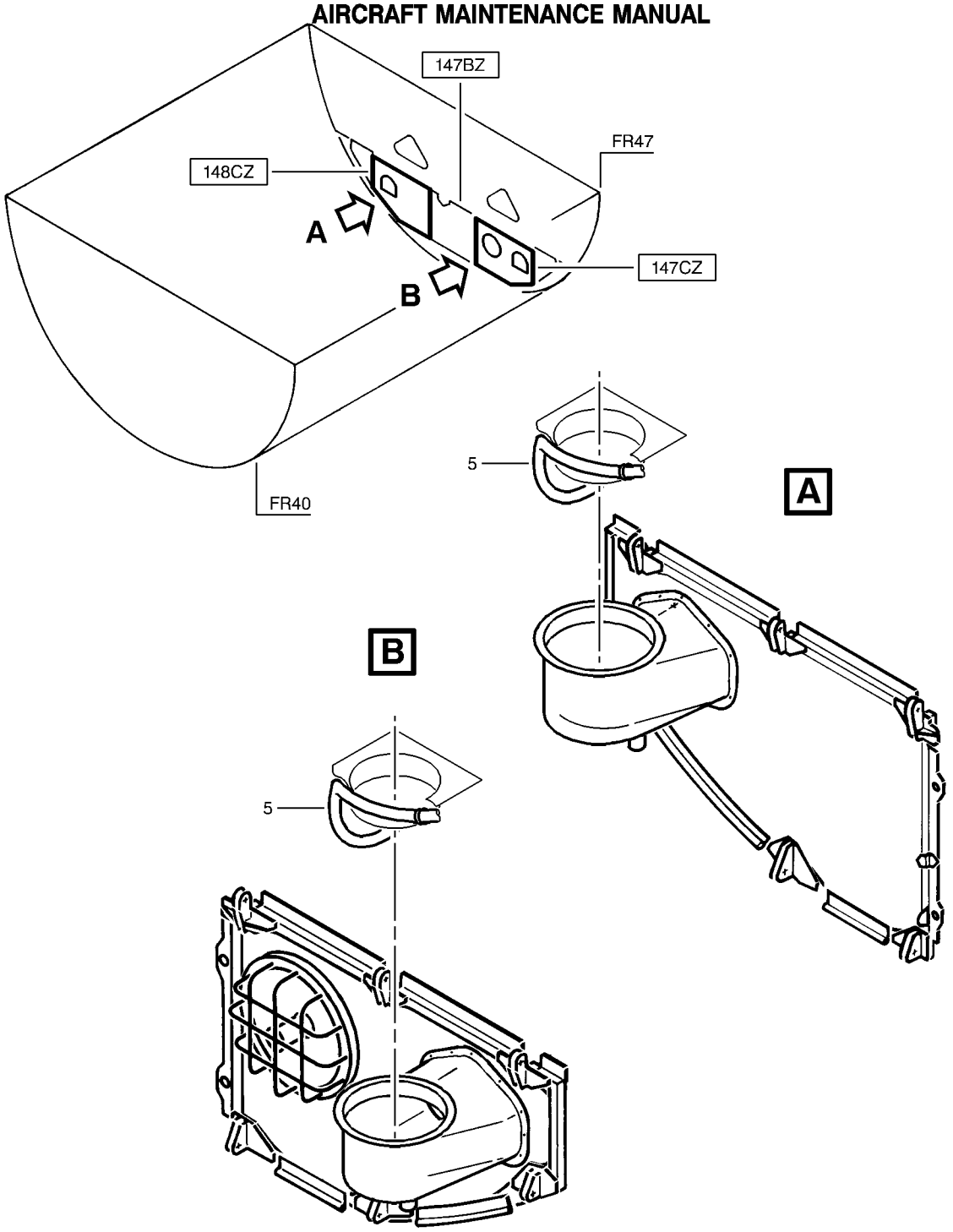
B. Removal
(1)Remove studs (4) and washers (3).
(2)Remove pins (2).
(3)Remove access panel (1).
NOTE : Obey the safety precautions when you remove the access panel (1) to avoid damage to the harness (5).

C. Preparation for Installation
(1)Inspect the harness (5)
- check that the harness (5) is not damaged.

D. Installation




Access Panels (147CZ, 148CZ)
Figure 401

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Harness Location
Figure 402

(1)Position access panel (1).
NOTE : Obey the safety precautions when you install the access panel (1) to avoid damage to the harness (5).
(2)Install pins (2).
(3)Install washers (3) and studs (4).

E. Close-Up

R CAUTION : MAKE SURE THAT ALL THE FASTENERS AND PIP PINS ARE CORRECTLY
R INSTALLED AND SECURED WHEN YOU INSTALL/CLOSE THE ACCESS DOORS/
R PANELS AT FR47.

(1)Close access door 147BZ.
(2)Remove safety clips and tags and close circuit breakers 63QA and 64QA.
(3)Remove access platform.
(4)Close main landing gear doors (Ref. 32-12-11, P. Block 301).